

CLASSE

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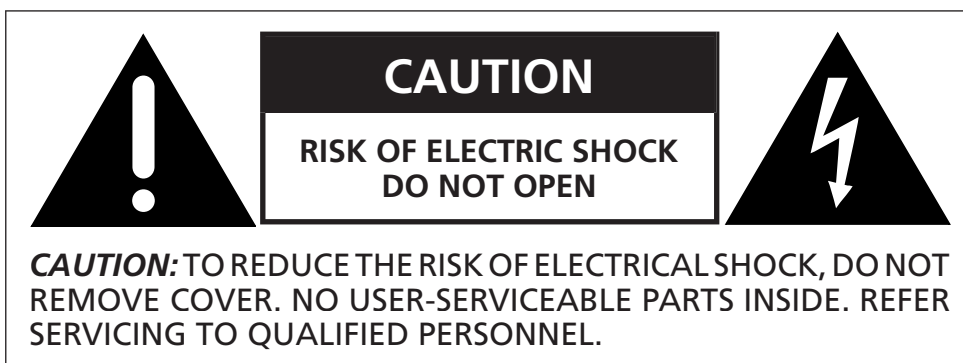
Owner's Manual
CP-700
Preamplifier

ENGLISH

用户手册
CP-700
前置放大器

中文

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Marking by the "CE" symbol (shown left) indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community.



Classe products are designed to comply with international directives on the Restriction of Hazardous Substances (RoHS) in electrical and electronic equipment and the disposal of Waste Electrical and Electronic Equipment (WEEE). The crossed wheeled bin symbol indicates compliance and that the products must be appropriately recycled or processed in accordance with these directives.

NOTICE

All of us at Classé take extreme care to ensure that your purchase will remain a prized investment. We are proud to inform you that all Classé components have been officially approved for the European Community (CE) mark.

This means that your Classé product was subjected to the most rigorous manufacturing and safety tests in the world. The CE mark certifies that your purchase meets or exceeds all European Community requirements for unit-to-unit consistency and consumer safety.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and the receiver;
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate the equipment.

The information contained in the manual is subject to change without notice. The most current version of this manual will be posted on our web site at <http://www.classeaudio.com>.

Important Safety Instructions

Caution:

Please read and observe all warnings and instructions in this owner's manual and all those marked on the unit. Retain this owner's manual for future reference.

1. **Do not attempt to service this product yourself.** Do not open the cover for any reason. There are no user-serviceable parts inside. An open unit, particularly if it is still connected to an AC source, presents a potentially lethal shock hazard. Refer all questions to authorized service personnel only.
2. **To prevent fire or shock hazard, do not expose the unit to water or moisture.** If a liquid does enter your component, immediately disconnect it from the AC mains and take it to your Classé dealer for a thorough check-up.
3. **Do not place your component near any heat-producing device** such as a radiator, stove, etc., Keep it away from direct sunlight.
4. **Connect your component only to an AC source of the proper voltage.** The shipping container and the rear panel serial number tag will indicate the proper voltage. Use of any other voltage may damage the unit and void the warranty.
5. **AC cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them.** Do not stress the AC cord by stretching it to reach a plug. If damage does occur to the AC cord, take it to your Classé dealer for a thorough check-up and proper repair or replacement.
6. **If your component will be out of use for an extended period of time** (vacation, etc.), you may wish to unplug the power cord from the AC source to prevent any chance of problems from a voltage surge or lightning strike.
7. **NEVER** wet the inside of this product with any liquid.
8. **NEVER** pour or spill liquids directly onto this unit.
9. **NEVER** block air flow through ventilation slots or heatsinks.
10. **NEVER** bypass any fuse.
11. **NEVER** replace any fuse with a value or type other than that specified.
12. **NEVER** attempt to repair this product. If a problem occurs, contact your Classé dealer.
13. **NEVER** expose this product to extremely high or low temperatures.
14. **NEVER** operate this product in an explosive atmosphere.
15. **ALWAYS** unplug sensitive electronic equipment during lightning storms.

Please record the serial number of your new Classé component here for future reference.

Serial #: _____

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Welcome to the Classé family

Congratulations on your purchase of a Classé product. It is the result of many years of continuous refinement, and we are sure that you will enjoy it for many years to come.

We value our relationship with our customers. Please allow us to stay in touch with you by returning your warranty card now, before you pack up the shipping carton of your new product and forget all about it. Doing so will enable us to let you know about any possible future upgrades or updates that might become available for your Classé component.

Sending in your warranty card also registers your product with us so that warranty service can be obtained easily and quickly, even if you have mislaid your original sales slip.

Please, take a few minutes to fill out the warranty registration card, and drop it in the mail.

You will find the warranty registration card at the end of the separate warranty policy booklet, enclosed.

a word about installation

Every effort has been made to make the Classé CP-700 simple and straightforward to install and use.

Still, we have no way to evaluate many other variables such as the size and shape of your room, its acoustics, and the associated equipment you have chosen to use with your preamplifier. All of these factors influence the ultimate performance of your system.

For this reason, we strongly encourage you to have your system installed and calibrated by your dealer, whose experience, training, and specialized equipment can make a profound difference in the final performance of the system.

Unpacking and Placement

unpacking your preamplifier

Carefully unpack your preamplifier according to the supplied instructions, and remove all accessories from the carton.



Important!

Keep all packing materials for future transport of your Classé product. Shipping your new component in anything other than its purpose-designed packing material may result in damage that is not covered by the warranty.

placement

As with any preamplifier, it is best to place the CP-700 centrally within your system, since it is the hub to which all other components are connected. It should also be located at a convenient height for both visibility and use, since you generally interact with your preamplifier more than any other component (changing inputs, adjusting volume, etc.).

Note that adequate clearance for the AC cord and connecting cables must be left behind the CP-700. We suggest leaving eight inches (20 cm) of free space behind your preamplifier to allow all cables sufficient room to bend without crimping or undue strain.

Classé recommends that the unit not be placed directly on the top surface of a power amplifier (or any other heat source).

ventilation

Your Classé preamplifier generates a certain amount of heat in the course of normal operation. Be sure to allow three inches of clearance above it and three inches to each side to allow heat dissipation through air circulation. Avoid placement on soft surfaces that would restrict airflow (such as plush carpeting).

custom installations

Drawings are included in this manual to facilitate special installations and custom cabinetry (see the section *Dimensions*). An optional, purpose-designed rack mount kit is available for this product. Contact your Classé dealer for more information.

serial number

The serial number for your preamplifier is found on the rear of the unit. Please note and record this number on the page entitled *Important Safety Instructions* for your future reference.

register your purchase!

Having found the serial number, now would be a good time to fill out the registration card. Please register your purchase so we can advise you of updates and other items of interest.

It will take only a minute or so. Please complete the card now, before you forget.

operating voltage

The CP-700 preamplifier is set at the factory for 100V, 120V, 230V, or 240V AC mains operation, as appropriate for the country in which it is to be sold (*230V only in European Union countries, in compliance with CE regulations*). The voltage setting may not be changed by the user.

Make sure that the label on the rear panel of your preamplifier indicates the correct AC operating voltage for your location. Attempting to operate your preamplifier at an incorrect voltage may damage the unit.



Warning:

The voltage setting of your preamplifier may not be changed by the user. There are no user-serviceable parts within the unit. Please refer any problems to an authorized Classé service center.

If the AC mains voltage indicated on your preamplifier is incorrect, please contact your local, authorized Classé dealer or distributor.

The CP-700 can easily be powered by a normal 15-ampere AC mains line. If other devices are also powered from the same AC line, their additional power consumption should be taken into account.

The CP-700 includes protection circuitry that will prevent the preamplifier from operating at dangerously high or low voltages.

- **At startup:** the AC mains voltage must be within a range of approximately -15% to +10% of its nominal value at startup, or the preamplifier will not turn on. For example, a 120V unit requires the AC mains to be between approximately 95V-135V in order to turn on.
- **Over-voltage during operation:** if the AC mains voltage surges by roughly 10% or more during operation, the preamplifier will enter protection mode and shut down. The **Standby LED** will flash to indicate the protection mode has been engaged.
- **Under-voltage during operation:** if the AC mains voltage sags by 15% or more, the preamplifier will continue to play (since this does not present a particular danger to the amplifier), but note that it may not be able to achieve its usual standard of performance under these compromised conditions. The **Standby LED** will flash to indicate the condition.

warm up/break-in period

Your new Classé preamplifier will deliver outstanding performance immediately. However, you should expect to hear it improve somewhat as it reaches its normal operating temperatures and its various components “break-in.” It has been our experience that the greatest changes occur within the first 300 hours, as the preamplifier reaches thermal equilibrium and the capacitors fully form. After this initial break-in period, the performance of your new product should remain quite consistent for years to come.

The only exception to this rule is if the unit is unplugged for an extended period of time, allowing it to cool down. Depending on the degree of cooling involved, you should expect a brief warm-up period before the preamplifier’s sound quality is at its best. Unless your preamplifier was allowed to become quite chilled, subsequent thermal re-stabilization should not take long. Fortunately, you should never have to repeat the initial 300 hour break-in period.

please read this manual...

Please take a few minutes to review this manual, and to familiarize yourself with your new preamplifier. We understand that you are anxious to plug everything in and get started. However, reading this manual and following the advice it gives will ensure that you get all the benefits you deserve from having purchased such a fine piece of equipment .

Special Design Features

flexible graphic user interface

The LCD touchscreen on the front panel of your new component supports an extremely flexible and versatile graphic user interface (GUI) while maintaining a clean, uncluttered appearance. The CP-700 provides a range of controls that might otherwise require dozens of buttons and knobs on the front panel. Despite this power and flexibility, it remains simple to operate in day-to-day use.

In fact, in some ways it is even simpler to operate than a more conventional design might be. For example, if you are not using one or more of the inputs on your CP-700, you can delete the unnecessary buttons from the operational menu. Doing so prevents anyone from trying to select a non-existent source component, with the resulting confusion stemming from the lack of any sound. *(Of course, you can easily restore the button if you subsequently add another source component and need that input.)*

customizable volume control

The volume control on your new Classé preamplifier is controlled by sophisticated software that allows you to fine-tune its response to suit your preferences.

Ideally, a volume control would allow you to reach the volume you desire quickly, and would also provide extremely fine control once you are close to the “perfect” volume. Of course, these characteristics are in conflict with each other: one requires the volume to change by quite a lot for a given amount of turning of the knob, while the other requires small, incremental changes for the same turn of the knob.

The volume control system on your CP-700 solves this problem by responding differently based on the specific circumstances (e.g. how quickly you are turning the knob and where in the volume range you are). After extensive testing, we feel we have created factory default settings that most people will find intuitive and a real pleasure to use. However, if you feel you would like to fine-tune its performance further in order to suit your particular preference, you may easily do so.

highly refined circuit design

All Classé analog amplification stages are based on circuits that have been extensively optimized over many years of continuous development.

By starting with excellent circuit designs and working with them over the years, we are able to discover the many small refinements that add up to superlative performance, in a variety of applications. Altering a voltage here, or using a slightly different part there, may make all the difference between solid and absolutely outstanding performance.

This level of refinement only comes with a great deal of experience, and is not available to those who flit from one trendy notion to the next. It accounts in no small measure for both the consistency of sonic performance among Classé products (as they are all based on similar analog gain stages), and for the consistently excellent reviews these products receive from owners and reviewers alike.

extensive listening tests

Excellent measured performance is to be expected in world-class products, and Classé products deliver that performance. However, experience has shown that technical excellence alone is insufficient to guarantee subjectively musical results.

For this reason, all Classé products are laboriously fine-tuned during the development process by carefully controlled listening tests. Our ears are still some of the finest laboratory test instruments available, and nicely complement more traditional engineering test equipment. In the course of optimizing the circuitry for a product, hundreds of decisions are made based on the subjective impression given by substituting one high quality part for another.

As an example, we may listen to half a dozen 0.1% tolerance film resistor components of the same value, from several different companies. Standard tests may show them all to provide identical results in terms of noise, distortion, and so forth. Yet, almost invariably, one selection yields some small improvement in the subjective reaction to the performance of the product under development. Less often, even a single such change can result in a surprisingly large improvement.

Multiply those various improvements by the dozens or even hundreds of such decisions that must be made before the product can be finalized for production, and you have a remarkable improvement, indeed fi all based on careful listening tests, which we view as a necessary complement to the solid engineering you might rightly expect from Classé.

extraordinary longevity

Another benefit of having worked with highly refined circuit designs so extensively over many years is that we have vast experience in what works well over the long term.

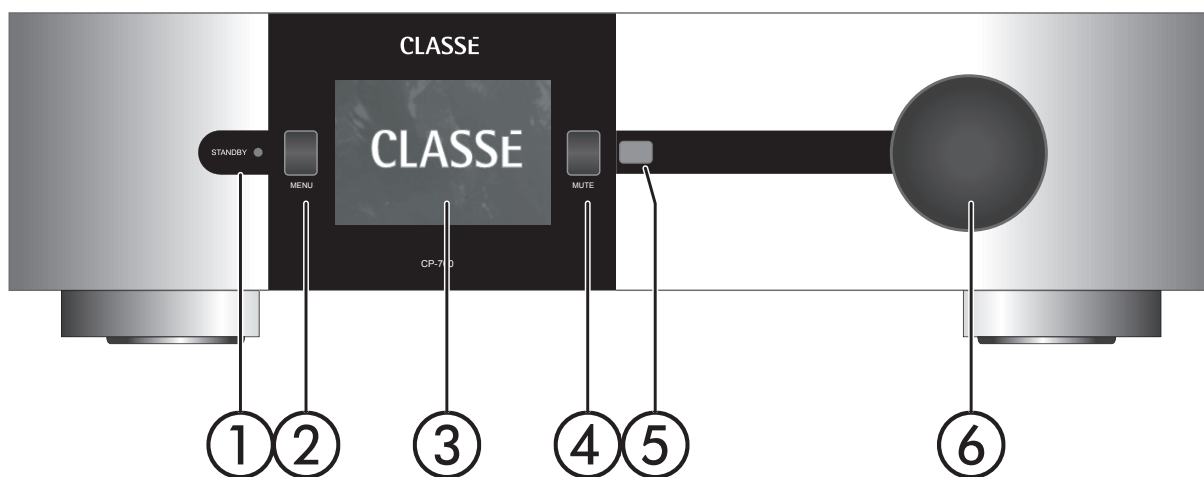
By using only the highest quality parts to begin with, and then using them in an informed way as a result of both accelerated aging experiments and actual long-term experience, we are able to design and manufacture products which we are confident will stand the test of time.

We are confident that your new Classé preamplifier will give you many years of trouble-free reliability and musical enjoyment, just as previous Classé products have given their owners.

robust, isolated power supplies

The CP-700 employs an outboard power supply to provide the ultimate in performance. This unit includes a massive 135 VA toroidal transformer with five secondary windings to provide maximum isolation for both the positive and negative voltages required by each channel, as well as the voltage used by the control circuitry within the preamplifier itself.

This design approach ensures that the preamplifier itself sees only the pure, highly-regulated DC power it needs for handling the music signals, while the high-voltage AC mains is kept safely away from your music. In short, it creates an ideal environment in which the refined circuitry of the CP-700 can operate to its full potential in service of your musical enjoyment.



Front Panel

1 Standby button & LED indicator

The front panel **Standby** button will toggle the preamplifier between *operate*, its fully operational state, and a *standby* mode that leaves the preamplifier off, yet ready to respond to system commands via any of the supported control options (e.g. IR input, DC trigger, CAN Bus, or RS-232).

The current state of the preamplifier is indicated by the **LED** indicator in the center of the standby button. When the unit is powered and switched on, the state of this LED indicates the following:

- on = *standby*
- flashing (*on power-up*) = *initialization*
- off = *operate*
- on (*dim*) = *display timeout*
- flashing (*after power-up*) = *AC mains voltage out of range*

If you are planning not to use the preamplifier for an extended period of time, e.g. vacation or other travel, we suggest you disconnect it from the AC mains. Please be certain that the preamplifier is turned off prior to disconnecting it from the AC mains.

Also, it is a good practice to physically disconnect any and all valuable electronics from the AC mains during electrical storms, as a lightning strike anywhere near your home can put a tremendous surge on the AC mains that can damage any piece of electronic equipment, no matter how well designed and protected. The best protection in the case of severe electrical storms is simply to remove the electronics from any connection with the power grid.

2 Menu button

Pressing the front panel **Menu** button will call up the *main menu system*, replacing the normal operational menu and status display in the LCD touchscreen.

3 LCD touchscreen

Much of your interaction with the CP-700 will be via the **LCD touchscreen** (and the CP-700's supplied remote control). It will usually display the various **input selection** buttons you would use in day-to-day operation, along with access to the tape button.

By pressing the **Menu** button, you can also call up the *menu system* of the CP-700, which gives you control over many of the operational details of the preamplifier, including *system setup* options, various *display* options (including the *language* in which the menu system itself displays), and several custom-installation capabilities that allow superior integration of the CP-700 into complex systems.

For more information, see the section *The Menu System* later in this manual.

4 Mute button

The front panel **Mute** button reduces the volume of the preamplifier to zero at the touch of a button. Pressing the button a second time restores the volume to its previous setting. The behavior of the mute can also be customized. Setup information on this feature is available in the *Volume Setup* section.

However, if you increase the volume manually (using either the **volume knob** or the **remote control**) while the **Mute** button is engaged, the mute control will disengage and the volume will be set to zero. This approach is a safety measure, to avoid situations in which the volume might be adjusted up while muted, only to then have the system un-muted to an unexpectedly high volume.

5 IR window

The **infrared** (IR) **receiver** and **transmitter** are located behind this window. Ordinarily, your Classé CP-700 must be able to "see" the remote control from this window in order to respond to remote control commands.

If your preamplifier will be located behind closed doors, or for any other reason will not be able to "see" the remote control during normal operation, you may use the rear panel **IR input** and **output** mini-jacks and an *IR repeater system* to solve the problem. For more information about using an infrared repeater system to route signals to and from the CP-700, refer to the section *Rear Panel* later in this manual, or contact your local Classé dealer.

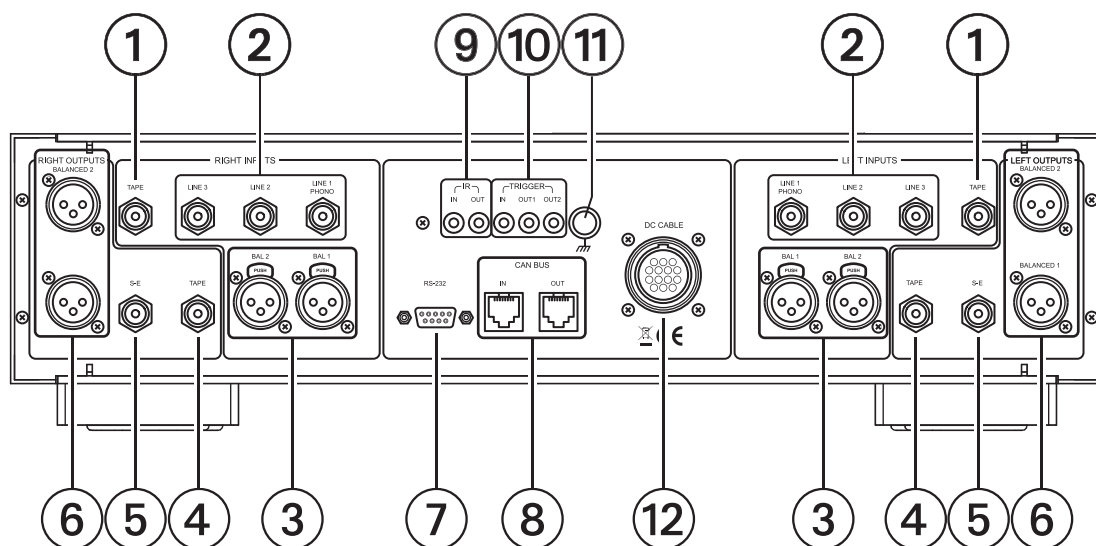
In addition to receiving IR commands, the CP-700 can also transmit IR commands so they may be learned by third-party learning remote controls. The CP-700 includes a comprehensive list of discrete IR commands to facilitate the creation of reliable macros. Specifically, there are discrete codes for all commands that normally operate as toggle functions (e.g. separate *operate* and *standby* commands in addition to the normal command that toggles between the two states).

6 Volume Knob

The large **knob** on the right side of the front panel of the CP-700 is used to control the volume of the system.

The volume is raised or lowered in precise 0.5dB increments throughout the range of the control most likely to be used while listening to music.

At extremely low volumes, the step size is increased somewhat to make it easier to move quickly between extremely low and normal listening levels.



Rear Panel

1 Tape Input

Connect the analog outputs of any recording device (analog tape recorder, digital tape recorder, CD recorder, etc.) you may have to these single-ended **RCA** connectors. You may select to hear the output of your recording device by touching the **tape** button on the main operational screen of the CP-700.

2 Single-ended (RCA) inputs

These RCA jacks accept right-channel and left-channel (single-ended) inputs from line-level source equipment such as tuners, CD players, and tape decks. Any of these inputs may be selected by touching the corresponding button on the main operational screen of the front panel touchscreen.

To achieve the best possible results, we suggest that you use only high-quality, shielded interconnect cables. Please consult with your local Classé dealer for advice on the best cables for use in your system.

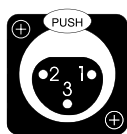
optional phono preamp

If you have a turntable you would like to use with the system, an optional phono preamplifier module is available from your Classé dealer. Once installed in your preamplifier, the **Line 1** input connectors become your **phono** inputs, and the **phono gain** control in the menu system becomes active, allowing you to select either *low gain* for all moving-magnet (MM) and high-output moving-coil (MC) cartridges, or *high gain* for standard output MC cartridges. (See the section *The Menu System* for more information.)

3 Balanced (XLR) inputs

These **XLR** jacks accept right-channel and left-channel balanced signals from source equipment with balanced outputs. Either of these inputs may be selected by touching the corresponding button on the main operational screen of the LCD touchscreen.

The pin assignments of the XLR-type female input connectors are:



- Pin 1: Signal ground
- Pin 2: Signal + (non-inverting)
- Pin 3: Signal – (inverting)
- Connector ground lug: chassis ground

Refer to the operating manuals of your balanced-output line-level sources to verify that the pin assignments of their output connectors correspond to the CP-700. If not, wire the cables so that the appropriate output pin connects to the equivalent input pin.

To achieve the best possible results, we suggest that you use only high-quality interconnect cables. Please consult with your local Classé dealer for advice on the best cables for use in your system.

4 Tape output

Connect these **RCA** jacks to the right-channel and left-channel recording inputs of your recorder.

These single-ended RCA outputs are unaffected by the volume control on the front panel, or by whether you choose to monitor the source or the recorder (*by having the “tape” button on the front panel’s touchscreen deselected or selected, respectively*). The record outputs will be disconnected when the preamplifier is placed into *standby*, however.

5 Single-ended (RCA) main outputs

Single-ended cables using RCA connectors are the most common form of analog connection used in consumer electronics. When implemented carefully and used with high quality interconnect cables, this standard can provide excellent performance.

Classé has gone to extraordinary effort to ensure that the single-ended (RCA) outputs of your preamplifier are as good as possible. However, this connection standard cannot offer the immunity from interference that balanced interconnection does; hence our recommendation to use the balanced outputs whenever possible.

If you are not using balanced analog interconnection, then connect these single-ended outputs to your preamplifier using high-quality shielded RCA-terminated cables. Your Classé dealer can advise you on the selection of cables suitable for your system.

6 Balanced (XLR) main outputs

The CP-700 supports two pairs of high quality XLR outputs to provide balanced stereo analog signal to your power amplifier(s). In most cases, you will connect one pair only to corresponding balanced inputs on your power amplifier, using shielded high-quality balanced interconnects. If you choose to biampify your speakers, you may need to use both outputs. Your Classé dealer can provide assistance in selecting appropriate balanced cables for your system, as well as advice on the potential benefits of biampification in your particular situation.

Balanced audio interconnections were originally developed in the professional audio world for preserving the delicate nuances of extremely small microphone-level signals. For many years now, they have also been used by performance-oriented consumer companies like Classé to preserve every nuance of the finest audio performances in your collection.

Technically, balanced audio interconnections provide two distinct benefits: they double the signal's strength as it travels from one component to the next, increasing the potential signal-to-noise ratio by 6 dB; they also do an excellent job of rejecting noise and interference that might otherwise be picked up between the components, due to either EMI (electromagnetic interference) or RFI (radio frequency interference). In the world of wireless telecommunications, there is more potential interference around than ever before, so it makes sense to keep it out of music and movie soundtracks.

For this reason, we strongly recommend using balanced analog interconnects between your Classé components wherever possible, especially if you plan to use long interconnect cables between your preamplifier and the power amplifier(s) in order to minimize the length of the speaker wires.

The pin assignments of these XLR output connectors are:



- Pin 1: Signal ground
- Pin 2: Signal + (non-inverting)
- Pin 3: Signal – (inverting)
- Connector ground lug: chassis ground

These pin assignments are consistent with the standard adopted by the Audio Engineering Society (AES14-1992).

If you are using your Classé preamplifier with a Classé power amplifier, you're all set. Just take standard balanced interconnect cables and plug them in.

If you are using another brand of power amplifier, please refer to the operating manual of your amplifier to verify that the pin assignments of its input connectors correspond to those of the CP-700. If not, have your dealer wire the cables so that the appropriate output pin connects to the equivalent input pin.

7 RS-232 Control Port

This **DB-9** connector has two purposes:

- downloading new operating software into your preamplifier (should new features ever be added, for example)
- external control of your preamplifier by control systems such as i-Command™, AMX® and Crestron™

For more information, please contact your dealer and ask about home automation systems.

8 Classé CAN Bus Control Ports

These **RJ-45** connectors are reserved for future control and communication applications using Classé Audio's implementation of the Controller Area Network (CAN) Bus specification.

9 IR Input and Output

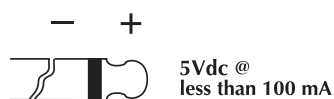
Your Classé preamplifier includes two 1/8th-inch **mini mono-jacks** in order to support the infrared (IR) remote controls that are ubiquitous today. Infrared commands exist (for example) for *toggling* the preamplifier between *operate* and *standby*, in addition to discrete command codes for either *operate* or *standby*. These codes may be used in “macros” for sophisticated remote control systems, facilitating the control of the preamplifier in the larger context of a complete system.

The list of commands available is quite extensive, enabling even complex *macros* (chains of commands strung together) to operate flawlessly. If this capability is of interest to you, we strongly recommend discussing it with your authorized Classé dealer.

Note that *IR Input* and *Output* is a bit of a misnomer: the input and output of these plugs is *electrical* in nature, not infrared. They are used with standard IR receivers, distribution amplifiers, and emitters (available from your dealer) to translate the remote's IR signal to an electrical signal and *vice versa*. The big advantages here include being able to easily route the signals anywhere they might need to go and the reliability of a solid electrical connection.

Since an IR distribution system such as your dealer may design for you usually must control many products, your preamplifier includes both an **IR input** (for the control of this product) and an **IR output** (so as to pass along the same signal to the next product). This allows you to “daisy chain” your control wires from one product to the next.

The preamplifier is designed to respond to IR commands of 5 Volts DC, with the tip of the mini-plug defined to be positive relative to the shank of the plug.



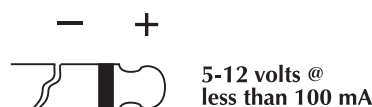
10 DC Trigger Input and Output

Many audio/video components can supply a DC control voltage to associated equipment in order to induce desired behavior. Your Classé preamplifier can take advantage of these capabilities in order to be switched between *operate* and *standby* automatically, usually in concert with the A/V preamp itself.

The 1/8th-inch mini mono-jack **Trigger In** provides for remote-controlled turn-on (that is, toggling between *operate* and *standby*) of the preamplifier.

Two 1/8th-inch mini mono-jacks provide individually controllable DC trigger outputs which can be used for any of a number of purposes, as described in *The Menu System*. For example, your dealer can program **Trigger Out1** to toggle your Classé power amplifier between operate and standby with your CP-700.

The remote trigger input will respond to the presence of 5-12VDC, with tip polarity as shown below:



Similarly, the trigger outputs will create a 12VDC signal that can source up to 100mA of current.

11 Ground terminal

The ground terminal on your preamplifier is most often used for the ground wire of a turntable, assuming you have the optional phono module installed (see your authorized Classé dealer for more information on this option if you are interested). Connecting the ground wire from your turntable's tonearm to this screw terminal usually minimizes any hum or buzzing to which the turntable might otherwise be susceptible. Your authorized Classé dealer can assist you in handling this problem if it should arise.

12 DC Power Input

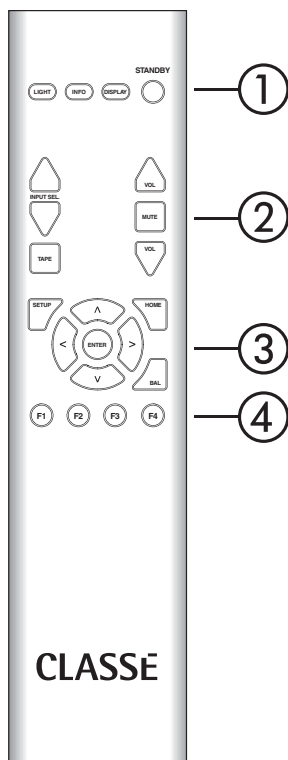
The **DC Power Input** for the CP-700 is located near the middle of the rear panel. Connect the provided multi-pin “umbilical cord” between the outboard power supply and this connector to provide the preamplifier with the clean, pure DC power it needs to do its job.

There is also an AC mains switch on the back of the outboard power supply. Switching the power supply on (assuming the preamplifier is connected with the umbilical cord) puts the preamplifier in *standby* mode. The preamplifier should also be in *standby* before power is switched off.



Danger!

Potentially dangerous voltages and current capabilities exist within your power supply, even when disconnected from AC mains. Do not attempt to open any portion of the unit's cabinet. There are no user-serviceable parts inside. All service of this product must be referred to a qualified authorized Classé dealer or distributor.



The Remote Control

Your new preamplifier comes with a versatile **remote control** which can control both the CP-700 itself and several aspects of the rest of a Classé-based system. The buttons are arranged in logical groups according to their functions.

1 Basic Functions

This section along the top of the remote control groups four functions that control your basic interactions with the CP-700.

- **Light** switches the backlighting of the remote control on, for better visibility under low-light conditions. After a few moments of inactivity, the backlight switches off automatically.
- **Info** takes you directly to the status screen in the LCD menu system, displaying several items of information about the CP-700 and its current operational status.
- **Disp** (for *Display*) cycles through the three brightness settings of the screen display.
- **Standby** toggles the CP-700 between standby and operate.

2 Input Selection & Volume

The **Up** and **Down** arrow keys on the left side of the remote control will cycle through the active inputs on your CP-700.

If you have inputs you are not using, we suggest deactivating them in order to provide faster, easier access to the inputs you are actually using. (See the section *The Menu System* for information on how to do this.)

The **Up** and **Down** arrow keys on the right side of the remote control will raise and lower volume; the square key between them will activate the **Mute** function of the CP-700 (as defined in the menu system; see *The Menu System* for more on your mute options).

3 Navigation Keys

The central section of the remote control contains the navigation keys. This array of buttons is similar to what you may have seen on remote controls for DVD players, and is used for navigation of the menu system of the CP-700.

- **Home** returns you to the normal input selection controls normally shown on the LCD screen on the front panel of the CP-700. This provides a quick way to get back to normal operation, regardless of how deep you might be in the menu system.
- **Menu** serves two functions: it calls up the menu system when you need it in order to adjust something to your preference; once within the menu system, pressing **Menu** returns you to the previous level of the menu system. If you press **Menu** when at the top level of the menu system, it will take you back out of the menu system to the normal display.

- The **Bal** (balance) key takes you directly to the **balance** screen in the menu system; once there, you can use the navigation keys on the remote to select either the **left** or **right** buttons on the LCD touchscreen, depending on which way you wish to move the balance. Adjust the relative left-right balance of the system by using the **Enter** key on the remote to “press” the appropriate button on the display.
- **Up/Down/Left/Right** keys allow you to move within a particular menu screen, changing the highlighted item up/down/left/right as you like, from the comfort of your listening position.
- The **Enter** key allows you to select the highlighted item, having the same effect as if you had pressed the button on the LCD touchscreen.
- The **Tape** key is not a navigation key, per se, but allows you to easily toggle between listening to the selected source and listening to the output of your recording device. If you have a recording device (such as a three-head tape deck) which can play back a recording while it is being made, you will be able to compare the original signal to the recording while you are making it.

4 Fkey Controls

The CP-700 remote control can also control user-defined functions as well. The **F1/F2/F3/F4** keys are available for controlling aspects of the CP-700 not covered by the other buttons on the remote control.

You are able to choose what the CP-700 should do in response to receiving the infrared signal that a particular **Fkey** has been pressed. The list of possible functions is quite extensive, and is found in the menu system (see the next section in this manual, entitled *The Menu System*).

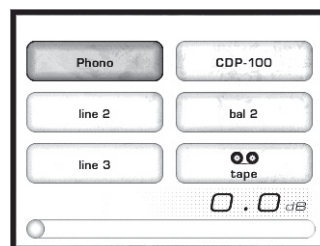
Note:

The Fkeys on all Classé remote controls issue the same infrared commands. This saves you from having to be sure you have picked up the proper remote, since all your Classé remotes will perform the same function for each Fkey.

The Menu System

Your CP-700 includes a versatile **LCD touchscreen** which supports both an attractive information display and a flexible menu system. While its use is quite intuitive, it is also quite extensive. This section of the owner's manual outlines the many capabilities found in the menu system.

operational menu



The **operational menu** provides easy access to the most basic functions of the preamplifier: **input selection** and **tape monitor**. It also provides both a numeric and a graphic depiction of the current **volume** setting.

input selection

Pressing any of the input buttons on the touchscreen will switch to the appropriate input. You may have as many as three *line* inputs (meaning single-ended connections using RCA connectors) and two *bal* inputs (balanced connections using XLR connectors). If you do not have this many sources in your system, you can elect to deactivate the unused inputs. Doing so removes their associated buttons from the touchscreen, reducing confusion for occasional users of the system.

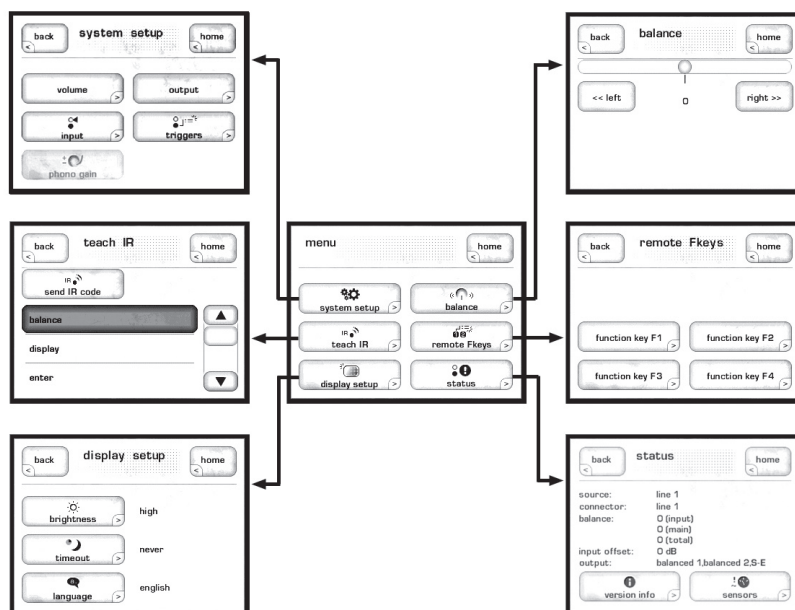
tape loop

In addition, the CP-700 has a dedicated **tape loop** for use with sources that can both record and play back, bringing the total number of sources you can connect to the CP-700 to six (four single-ended and two balanced).

When you touch the **tape** button to highlight it, you will notice that the previously selected input remains highlighted. Whenever any input is selected for listening, it is also selected for possible recording; a copy of its signal is sent to the recording device connected to the tape output. You may record it or not as you please.

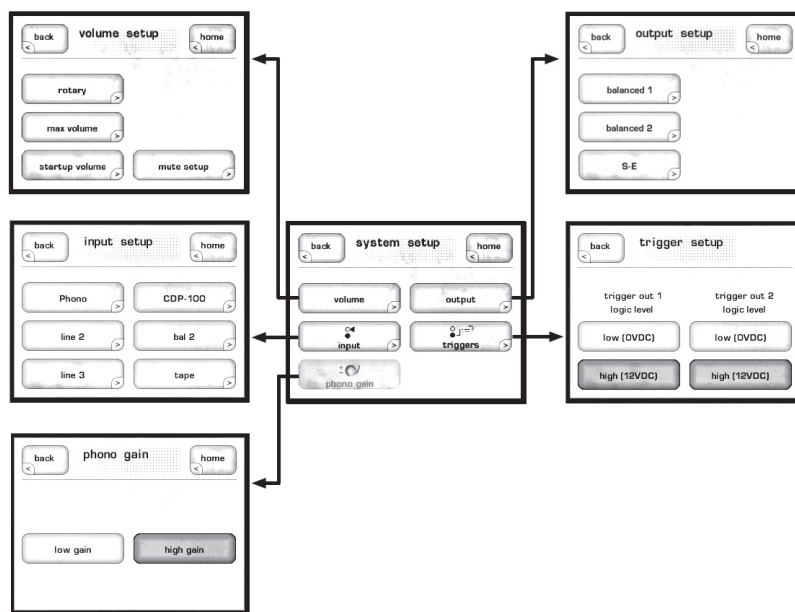
When you select the **tape** button, you are asking the CP-700 to continue with this recording feed (whether or not it is being used), while switching to monitor the output of the tape deck (or CD recorder, or whatever else you might have connected to the record loop). In this way, you can monitor the result of your recording while you are making it, in real time. *(This assumes that your recording device supports this capability, as do three-head tape decks.)*

main menu system



Pressing the front panel **Menu** button to the left of the **LCD touchscreen** brings up a comprehensive *main menu system*, the top two levels of which are shown above. This menu provides access to many installation-specific features that let you customize how the CP-700 works within the context of your particular system.

system setup



The first button on the control menu takes you to a series of submenus that collectively provide a great deal of control over your system setup. Here, you can:

- customize the behavior of your volume control
- tailor your inputs to your particular source components
- adjust the gain of the optional phono module
- activate and name your three sets of main outputs
- program the behavior of the CP-700's DC triggers

volume Pressing the **volume** button takes you to the volume setup menu, which in turn has four submenus, all pertaining to how the volume of the system is managed.

- **rotary**
- **max volume**
- **startup volume**
- **mute setup**

Each of these topics will be addressed in turn, below.

rotary The rotary knob on the front panel does not directly control the volume. Instead, it controls circuitry that does so with greater fidelity and precision than traditional volume potentiometers could ever achieve.

Since the volume control circuitry is under software control, it is possible to customize its behavior under various conditions. To better understand why this is so valuable, consider two scenarios:

Person A places a high value on precision in achieving exactly the volume setting that makes the music most realistic; being able to easily change volume setting by a fraction of a decibel is critical to his enjoyment of the system.

Person B just wants to jump easily from low volumes to a reasonable listening level, and is less concerned with the finer points of precision than with getting what he wants with a quick twist of the knob.

You can see the problem in these scenarios: Person A wants extremely fine gradations on the volume control, which will require many rotations to go from extremely low setting to normal listening levels; Person B wants to get from one to the other with a “quick twist” of the knob, requiring coarse gradations in order to cover so much range in so little space. What happens when Persons A and B live in the same house? Or if Person C wants to have both, depending on their mood at the moment? (*In fact, most of us are probably like Person C.*)

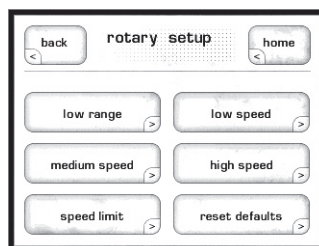
Classé solves this dilemma by altering the response of the volume control, based on several factors.

Since it is rare to listen at extremely low (barely audible) volumes, the *low range* adjustment of the volume control allows for faster response to knob input when the volume setting values are low. When activated, you will get from extremely low to middle volume control settings a bit faster than you would otherwise. This effect can be subtle, and may not even be desirable when the speakers used have extremely high sensitivity (since this results in using the lowest part of the range more than you would otherwise).

The most significant factor in the perceived responsiveness of the volume control is the *speed* at which the knob is being turned. We all naturally tend to move volume knobs more quickly when we need to make a bigger change, and we tend to slow down as we approach our desired volume. Thus, if the CP-700 sees the knob moving relatively quickly, it uses coarse steps to effectively accelerate the action of the circuitry. As the knob begins to turn more slowly, the CP-700 will actually increase the resolution of the steps, which slows down the action of the volume control and yields greater precision in choosing an appropriate setting.

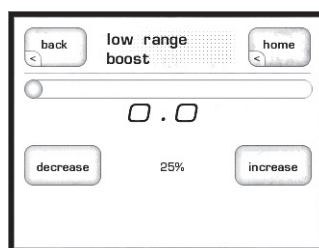
Of course, it is possible to bump into the knob by accident, which might result in its spinning very quickly indeed. Rather than increasing the volume uncontrollably under these conditions, the CP-700 actually slows everything down again as a safety measure against accidentally blowing your speakers. In fact, if you like you may establish a speed limit beyond which the knob will simply be ignored.

The *factory default* settings for these behaviors are generally found to be intuitive and a pleasure to use. However, if you prefer to alter these behaviors, you may do so in the rotary menu, shown below.



All of the **rotary setup** settings are interactive. You can set the value, and then adjust the volume to see whether the effect is what you desired.

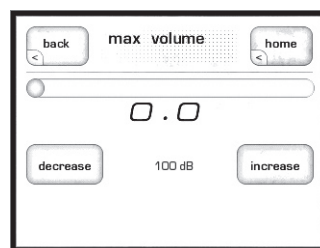
- **low range:** determines the degree to which the responsiveness of the volume control is boosted at low volume control settings, in order to get through them more quickly. A setting of 0 disengages the effect, while a setting of 100 maximizes it.



- **low speed:** determines the responsiveness of the control when the knob is being turned slowly. A setting of 0 will cause the volume to change as slowly as possible at low knob speeds; a setting of 100 will cause the volume to change as quickly as allowed at low knob speeds. *(The menu is the same as the one above except for the indication that it is for the "low speed" adjustment.)*

- **medium speed:** determines the responsiveness of the control when the knob is being turned at a moderate speed. A setting of 0 will cause the volume to change as slowly as possible at medium speeds; a setting of 100 will cause the volume to change as quickly as allowed at medium knob speeds. *(The menu is the same as the one above except for the indication that it is for the “medium speed” adjustment.)*
- **high speed:** determines the responsiveness of the control when the knob is being turned rapidly. A setting of 0 will cause the volume to change as slowly as possible at high knob speeds; a setting of 100 will cause the volume to change as quickly as allowed at high knob speeds. *(The menu is the same as the one above except for the indication that it is for the “high speed” adjustment.)*
- **speed limit:** establishes a maximum rotary speed, beyond which there will be no change in volume whatsoever; the knob’s input will be ignored completely until it is first stopped, and then rotated at a slower speed.
- **reset defaults:** if after experimenting with various settings you decide you prefer it the way it operated as it came from the factory, pressing this button will restore the factory default settings. So feel free to experiment fi you can always return to the original settings.

max volume



The **max volume** screen allows you to establish a maximum volume setting for your system. This scale runs from 0 to 100, with 100 indicating that you do not want any artificial limit placed on the maximum gain your preamplifier can provide.

This setting is interactive. You can set the value to something less than 100, and then adjust the volume to see whether it is appropriate.

startup volume

The **startup volume** screen allows you to define how the CP-700 handles its initial volume upon starting up. Your choices are:

- **last volume:** this setting causes the CP-700 to behave as do basic preamplifiers that use simple potentiometers for their volume control. The turn-on volume is whatever it happened to be when last used.
- **specific:** alternatively, you can elect to have a specific startup volume of your choosing. Select the specific button, and then set your preference by clicking the **set volume** button beside it. The latter button takes you to a screen in which you can both see and hear the setting you are choosing (assuming you are playing music at the time. Setting a relatively low startup volume ensures that you do not accidentally disturb anyone when first turning on the system.

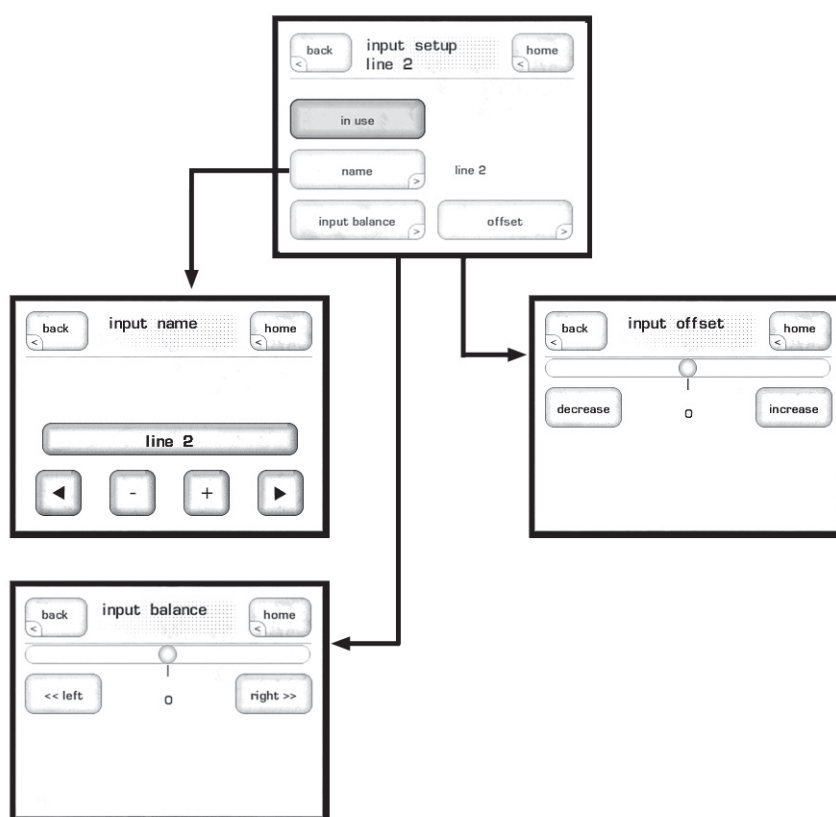
mute setup

Pressing the **mute setup** button allows you to select one of three different muting functions:

- **Classic** muting literally mutes the output when you engage the **mute** button; no sound will be heard.
- **Specific** muting allows you to select a specific volume setting that you want used when you engage **mute**, regardless of what setting you might have been using the moment before.
- **Dampening** works as most **mute** buttons work, attenuating the current volume by the amount you specify.

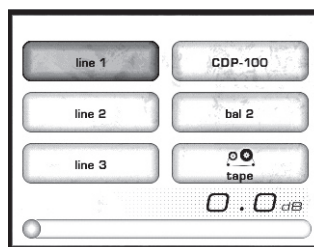
input

Each input on your preamplifier can be customized in several ways to enhance either the performance or the ease of use of the system. A quick look at the input menu and submenus gives you an overview of what is possible:



- **in use** determines whether the selected input is displayed on the main input selection screen, and whether it is included in the rotation of inputs cycled through from the remote control's input selection buttons.
- **name** provides a way to customize the names of the inputs as displayed on the main input selection screen. For example, you might want to name your **Bal 1** input "CDP-100" for the Classé CD player you might have connected to that input. To do so, use the four buttons along the bottom of the **input name** menu to change the default name of any given input to something more specific to your system.

- The ◀ button acts like the backspace key on a computer keyboard, moving the cursor to the left and eliminating any characters along the way.
- The ▶ button moves the cursor to the right, adding characters along the way. (Change each character to what you want as you go along, using the + and – buttons.)
- The + and – buttons change the current character through the available characters. They include all upper and lower case letters of the alphabet, the numbers 0-9, and a variety of punctuation. When done, your main display might look like this (note the change in what would otherwise be the **bal 1** input).

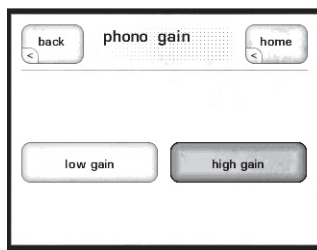


Warning!

When an input is renamed 'SSP', it becomes a unity gain input. When such an input is selected, the volume control of the CP-700 is disabled, all outputs are driven at line level and the volume indication is removed from the main menu.

This is useful in situations where the CP-700 is being used to pass through a signal coming from a component with its own volume control (e.g. Classé SSP-300 surround sound processor), or when one of its outputs is sent to a component with its own volume control (SSP-300). Care should be taken to adjust the volume control of the other component before selecting the SSP input, as the resulting volume level may be uncomfortably loud.

- **input balance** adjusts an input-specific balance adjustment to compensate for the possibility that a particular source might be slightly imbalanced. This is especially common with turntables, since even the finest handmade cartridges are subject to small channel imbalance problems.
- **input offset** provides a way to compensate for differences in output level between various source components. Doing so can eliminate the sometimes annoying and abrupt changes in volume encountered when switching between different source components.

phono gain

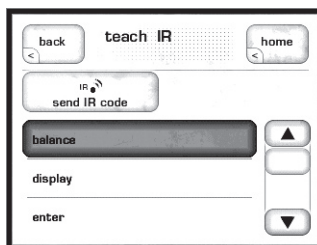
The **phono gain** menu is only active if the optional **phono module** is installed; otherwise it is grayed out. When it is installed, the CP-700 will automatically recognize it, rename the **line 1** input to **phono**, and activate the input on the main menu.

Setting the phono gain is simple enough: choose *low gain* for most moving magnet cartridges, and for high output moving coil cartridges; choose *high gain* for low output moving coil cartridges. Your Classé dealer can assist you in determining what type of cartridge you have, and which setting is most appropriate.

triggers

Each of the CP-700's **trigger outputs** may be programmed as to its "logic level," which is to say, whether its voltage is *low* (essentially 0V), or *high* (approximately 12V) when the trigger is activated. The ability to change the logic level of a trigger's "on" state can solve installation-specific problems that otherwise require external devices that add to both the cost and complexity of your system.

If this seems an obscure point, that's okay. It is a feature designed to solve problems you may not even have, but your installation professional appreciates being able to easily solve such problems when they occur.

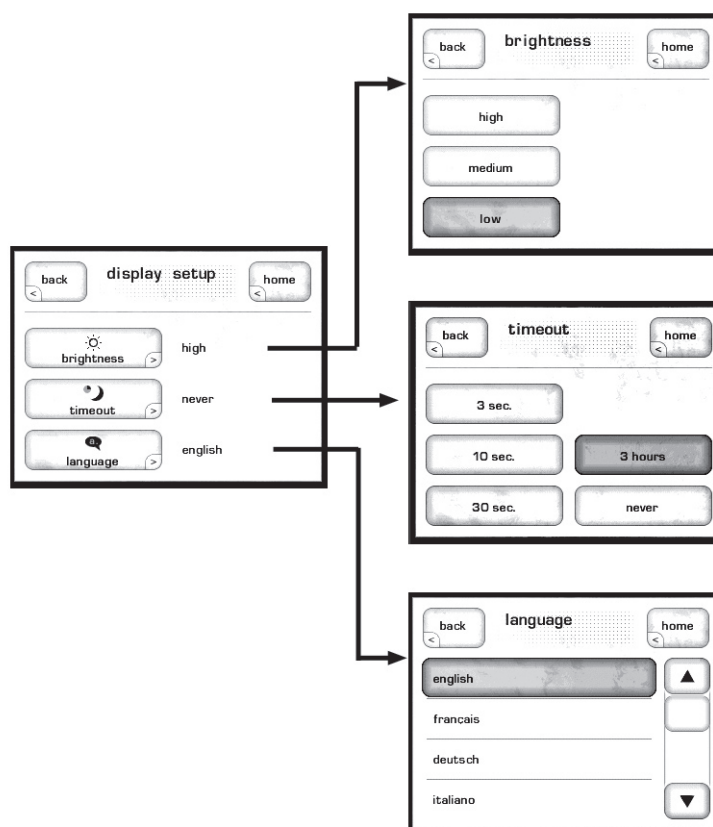
teach IR

The CP-700 provides discrete infrared (IR) command codes for all its functions, a list that extends far beyond what is required by normal remote controls. However, many of these functions are critical if you plan to create a customized remote control with macros that take command of your entire system. Without these discrete codes, many of the macros you might want to create will simply not work reliably.

The **teach IR** screen provides a scrolling list of all the available IR codes in the CP-700. By scrolling to the command you need to learn into your macro-capable remote, and then pressing the **send IR code** button, the CP-700 will send the appropriate command code out its front panel where it can be learned by your third-party remote control.

For more information on such control systems, we recommend you speak with your authorized Classé dealer.

display setup



This button brings up the **display setup** menu. It allows you to configure the CP-700's LCD screen *brightness*, the display *timeout*, and the *language* used in the touchscreen and menu system.

brightness

The **brightness** setting of the CP-700 has three possible values: *low*, *medium*, and *high*. Select the appropriate setting based on the level of ambient light typically found in your listening room while using the system. A *high* brightness setting usually works best in brightly-lit rooms; you may find that a lower setting is less visually intrusive under more subdued lighting conditions.

timeout

If you prefer listening to music in a dimly-lit or darkened room, you may find even the *low* brightness setting of the display somewhat distracting. If so, you can vary the **timeout** of the backlighting so as to turn it off entirely after a period of inactivity you select.

In this context, activity refers to any use of the user interface. This includes hard buttons, the LCD touchscreen, and the remote control.

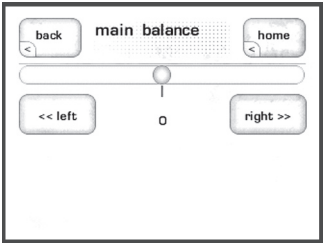
For example, if you reduce the timeout to its minimum setting, the backlighting will illuminate the display as soon as you interact with any of the CP-700 controls, and stay on for only three seconds if just long enough for you to check on something. If you continue to use any of the controls (at least once every three seconds), the display will remain lit. It will then extinguish itself after three seconds of inactivity on your part.

If you prefer the display of the CP-700 to remain on whenever not in *standby*, choose the *never* timeout setting. The lamp in the LCD display was designed for harsh automotive environments and will give you many years of reliable operation. If you plan to leave the unit on continuously, however, we recommend that you keep the timeout delay set to less than one minute. (Note that setting the brightness to a lower setting does not increase the life of the lamp.)

language

The **language** menu offers you any of the different languages supported by the CP-700 GUI. Classé has provided our international distributors with a software tool that makes it possible for them to customize the translations to suit their local customs and terminology, in an effort to ensure that the CP-700's operation is as intuitive to use in every country as it is in our home country of Canada.

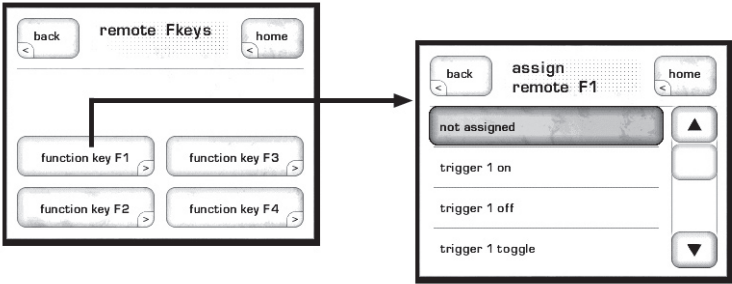
main balance



The **main balance** control gives you both a numeric and a graphic indication of the current balance setting for the CP-700.

Some recordings are not balanced particularly well between the left and right channels. If the image presented by a particular recording seems heavily weighted to the left (for example), you can restore a more natural perspective with the balance control. To shift the image to the right, touch the **right>>** button one or more times as needed to correct the perceived imbalance.

remote Fkeys



The remote control supplied with the CP-700 has four **function keys (Fkeys)** that allow you to have instant, easy access to specific system functions that might otherwise be buried in a menu somewhere.

For example, if you use the balance control frequently, you may want to consider programming one of the **Fkeys** to take you straight to that screen. Doing so will save you having to access the control menu, followed by pressing the **balance** button (*which might be hard to see from across the room*).

The **remote Fkey** menu has four buttons, one each for the four **Fkeys** on your remote control. Pressing any of these buttons on the LCD touchscreen takes you to a subordinate, scrolling list of possible functions for that particular **Fkey**.

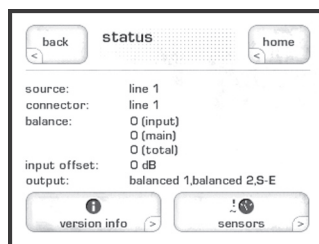
Selecting the one you want is as simple as scrolling through the list (by touching either the up or down arrows on the right), and then touching the specific function in the list that you want that **Fkey** to perform.

cautionary note on Fkey use

Note that all Classé remote controls provide these same four **Fkeys**, so that you need not worry about which remote you happen to pick up. Thus **F1** on the preamplifier's remote control sends the same infrared signal as **F1** on the CD player's remote control.

While this is intended to minimize confusion amongst different remotes (since this aspect of them will all perform identically), you should take care when assigning different functions on different components to the same **Fkey**. Doing so would result in two components doing two different things at once, in response to a single press of a button on the remote control. This can sometimes be useful. As an example, **F1** could set the preamplifier to the **CD** input, and also set the CD player to **Play**, both from the press of a single **Fkey**.

status



The **status** screen provides several items of information about the current operation status of the CP-700, as well as access to information on the software used in and the internal sensors of the CP-700.

version info

The **version info** button on the status screen takes you to the **version information** screen, which displays information on various pieces of software used by your CP-700. If you ever have occasion to call our technical support people to ask a question not covered in this manual, they may want to know precisely what version of software your unit is running. Having this information available will help enable them to give you the best possible service.

sensors

The **sensors** button on the status screen takes you to the **sensors** screen, which displays information about several internal sensors within the CP-700. It is unlikely you might ever need the sensor information, unless directed to do so by a customer service representative at Classé in order to help troubleshoot some unexpected problem.

Troubleshooting

In general, you should refer any service problems to your Classé dealer. Before contacting your dealer, check to see if the problem is listed here. If it is, try the suggested solutions. If none of these solves the problem, contact your Classé dealer.

1. Everything appears to be on, but there is no sound.

- Adjust the volume control to a moderate level (one that should be audible but is not excessive).
- Make sure the source component for which the input has been selected is switched on and is out of its *standby* mode.
- Make sure the proper input has been selected for the source being used.
- Check that the preamplifier is not in *mute* mode. This is indicated by the operational menu icon in the form of a speaker with a bar through it. Press **Mute** to disengage.
- Ensure that the power amplifier is powered up and out of *standby* mode.
- Check if the tape monitor is enabled. If it is engaged and the recorder is off, you will not hear the selected source. Disengage by pressing **Tape**, unless you wish to monitor the recording.
- If the problem occurs only with a particular input, check the interconnect cables between that source and the preamplifier.
- If the problem occurs with all inputs, check the cables between the preamplifier and the power amplifier. If no fault is found there, check the speaker wires for secure connections.



Important!

Check that the power amplifier is off before checking any connections between the preamplifier and power amplifier, or between the power amplifier and the speakers.

2. There is no sound and the Standby LED is not lit.

- Ensure the preamplifier is plugged into the AC mains and switched on, and that the AC mains are operating normally. The unit will automatically attempt to protect itself from improper AC mains voltages by not powering up. Make sure your power amplifier is off (if the amplifier is already connected to the preamp) before plugging your preamplifier into the AC mains and powering it up.
- If your preamplifier was plugged in properly, try the following: put it in standby, switch off the main power switch in the back, and unplug the unit for at least thirty seconds before trying to power it up again. *(Sometimes a brownout or short-term loss of power might require a restart.)*



Important!

Make sure to power down your power amplifier BEFORE doing the restart.

- If none of these solutions work, please consult your Classé dealer for assistance. Never attempt to replace an internal fuse. There are no user-serviceable parts inside your unit.



Important!

3. Only one speaker seems to be playing.

- Check the main balance control setting of the CP-700 by pressing the **Menu** button, followed by the **balance** button (or simply press **Bal** on the remote control).
- Does the problem occur with all inputs? If so, check the interconnect cables between the preamp and the power amp. If no fault is found there, check the speaker wires for secure connections.

Be certain that the power amplifier is off before checking any connections between the preamplifier and power amplifier, or between the speakers and the power amplifier.

- If the problem occurs only with a particular input, check the input balance control setting of that particular input:

Menu → system setup → input → *input name* → balance

where *input* name is the particular input in question.

- If the input balance appears to be correct, check the interconnect cables between the corresponding source component and the CP-700.

4. The IR remote control seems not to function.

- Ensure that there are no obstacles between the IR remote and the IR sensor (located to the right of the Mute button).
- If the batteries are weak, replace them with fresh ones.

5. There is a hum coming out of the speakers.

- If you are running single-ended interconnects, make sure they are not running alongside any AC power cords.
- If you are running single-ended interconnects, make sure they are not too long. Long runs of single-ended interconnects have a natural tendency to pick up noise even if they are shielded.
- If any source components connected to your preamplifier has a cable TV hooked up to it, try disconnecting the cable television line from the source. If the hum goes away, you will need an isolation device between your cable and that particular source. Refer to your Classé dealer for one of these inexpensive devices.
- If you have the optional phono module in your preamplifier, make sure that the ground wire of the tonearm is secured properly to the ground lug on the back of your preamp.
- If the hum exists only on the phono input, make sure the turntable/tonearm assembly is not too close to other components. There should be at least 12 inches (30cm) clearance from the other components. The more clearance you provide, the better (as long as the tonearm cable is not stretching).
- Make sure the tonearm cable is not touching or running alongside an AC cable.
- Make sure you have the proper loading for your phono cartridge. If you are in doubt, consult your authorized Classé dealer.

6. There is a mechanical hum coming from the unit.

- This symptom suggests you have a lot of electrical noise on your AC mains line. Try connecting to another AC circuit (not merely a different plug, but a different circuit).
- Check to see if you have any halogen lighting or dimmers on the same circuit as the preamplifier, as they can be the cause of hum in power supply transformers.

7. There is a noticeable change in volume between one input and another, even though the volume was not adjusted.

- You may need to adjust the input offset setting to compensate for differences in output level between source components. Conversely, the input offset setting may have been adjusted inappropriately. Either way, you can correct the problem by going to the following location in the menu system:

Menu → system setup → input → *input name* → offset

where *input name* is the input which needs to be adjusted.

- If the input that seems incorrect is the phono input, make sure you are using the proper gain setting for the type of cartridge you are using. If in doubt, consult with your authorized Classé dealer.

Care and Maintenance

cleaning the cabinet

To remove dust from the cabinet of your preamplifier, use a feather duster or a soft, lint-free cloth. To remove dirt and fingerprints, we recommend isopropyl alcohol and a soft cloth. Dampen the cloth with alcohol first and then lightly clean the surface of the preamplifier with the cloth. Do not use excessive amounts of alcohol that might drip off the cloth and into the preamplifier.



Caution!

At no time should liquid cleaners be applied directly to the surface of the preamplifier, as direct application of liquids may result in damage to electronic components within the unit.

cleaning the LCD touchscreen

To clean the LCD touchscreen, use a microfiber eyeglass wipe or soft, lint-free cloth, together with a cleaning solution designed for plastic eyeglasses or LCD computer monitors/televisions.

Important!

Spray the solution onto the cloth or tissue – never directly onto the touch screen.

installing the remote control batteries

The battery compartment is situated at the base of the remote control. Remove the two screws holding the base plate in place, taking care not to lose them. Insert the two AA batteries (supplied), ensuring that the polarity is the same as that indicated on the inner surface of the remote control.

Specifications

All specifications are accurate at the time of printing. Classé reserves the right to make improvements without notice.

■ Frequency response	20 Hz – 200kHz ± 0.1dB
■ Distortion (<i>THD + noise</i>)	0.0012%
■ Maximum input voltage (<i>single-ended</i>)	5Vrms
■ Maximum input voltage (<i>balanced</i>)	10Vrms
■ Maximum output voltage (<i>single-ended</i>)	10Vrms
■ Maximum output voltage (<i>balanced</i>)	20Vrms
■ Gain range	-86dB to +14dB
■ Input Impedance (<i>single ended</i>)	100kΩ
■ Input Impedance (<i>balanced</i>)	200kΩ
■ Output Impedance	100Ω
■ Maximum Input to Noise Floor	120dB
■ Channel separation	130dB at 1kHz
■ Crosstalk (<i>any input to any output</i>)	better than -120dB @ 1kHz
■ Rated power consumption	42W
■ Idle power consumption	29W
■ Mains voltage	determined by the needs of country for which the unit was manufactured; cannot be reset by dealer or user
■ Overall dimensions (preamplifier)	Width: 17.5" (445mm) Depth: 16.5" (419mm) Height: 4.75" (121mm)
■ Overall dimensions (power supply)	Width: 5" (127mm) Depth: 12" (305mm) Height: 5.5" (140mm)
■ Net weight (preamplifier)	23lbs (10.5kg)
■ Net weight (power supply)	10lbs (4.6kg)
■ Shipping weight	45lbs (20.5kg)

For more information, see your Classé dealer, or contact:

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Lachine, Quebec
Canada H8T 1B3
Telephone +1 (514) 636-6384
FAX +1 (514) 636-1428

<http://www.classeaudio.com>
email: cservice@classeaudio.com

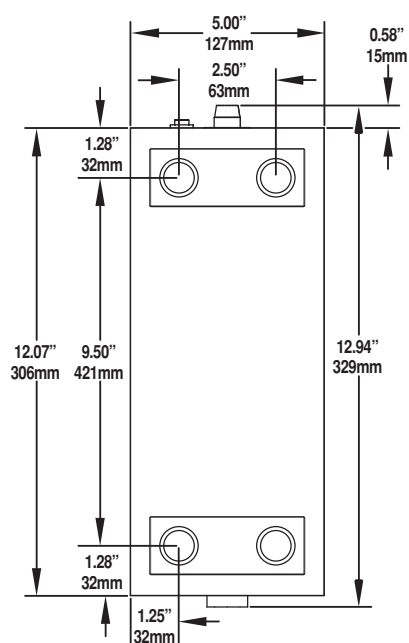
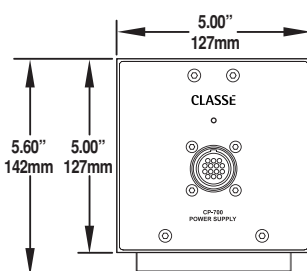
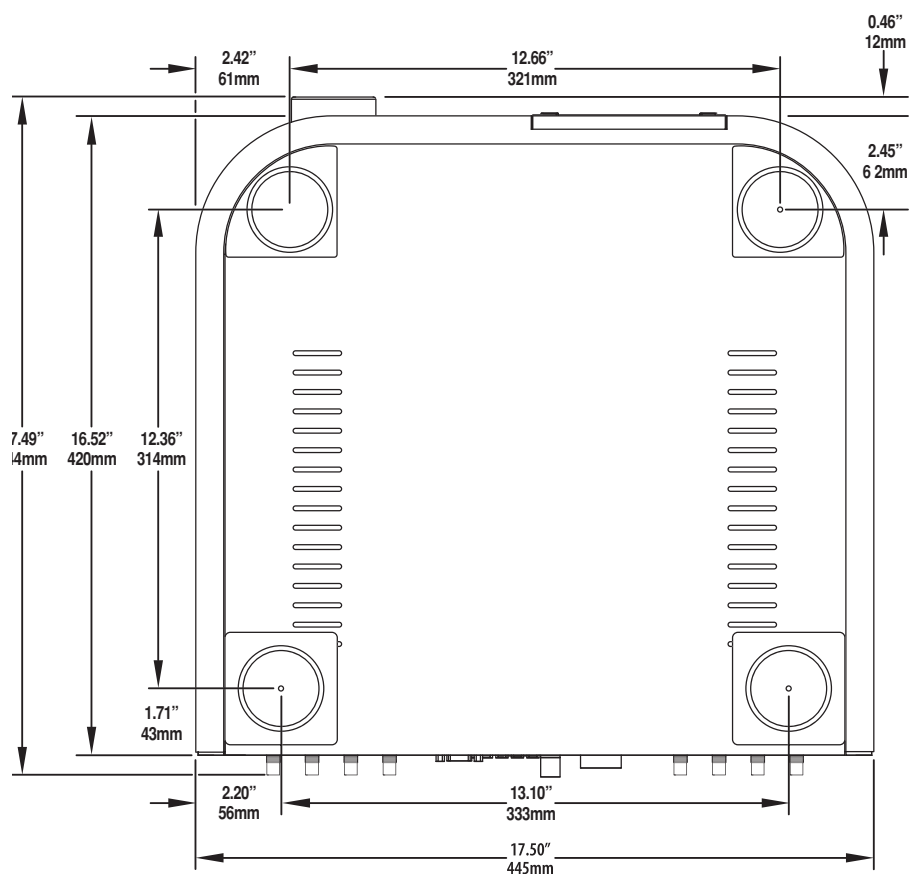
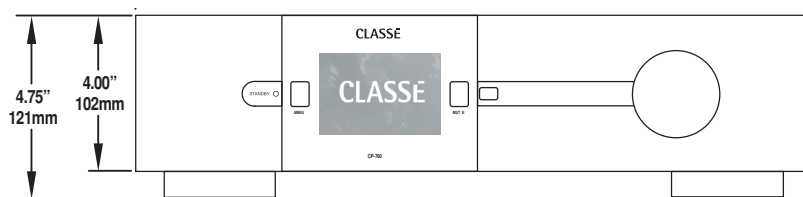
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AMX® is a registered trademark of AMX Corporation of Richardson, TX. All rights reserved.

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Dimensions

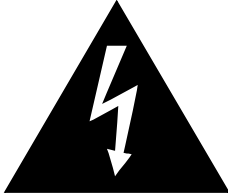


警告：为了避免火灾或者电击危险，请不要把该产品置于雨水或者潮湿的环境中。



注 意

电击危险
切勿打开



注意：为了避免电击危险，切勿打开盖子。
内部没有需要使用者自己修理的零件。
如遇到问题，请我们的专业修理人员联系。



等边三角形中带有箭头符号的电闪标记是用来提示用户，产品机壳中存在非绝缘“危险电压”，该电压的大小足以对人造成电击危险。



等边三角形中惊叹号标记是用来提示用户随机附带的参考数据中比较重要的操作和维护（修理）说明。



注有“CE”标志的产品表示该设备符合欧洲共同体制定的 EMC（电磁兼容性）和 LVD（低压指令）标准。



Classé 产品设计是遵照国际 Restriction of Hazardous Substances (RoHS) 在电器和电子设备处置 Waste Electrical and Electronic Equipment (WEEE) 的方针。交叉废物箱标志表明需要服从符合这些方针，产品必须被回收或适当地被处理。

注意

Classé 公司的所有工作人员全心全意地制作，确保为你提供极具价值的购买选择。在此我们很自豪地告诉你，我们所有的 Classé 零部件都已经正式通过了认证，印有欧洲共同体（CE）的标记，CE 认证编号为 C401CLA1.MGS，于 1996 年 7 月 18 日发布。

这也就是说，你所购买的 Classé 产品经过了世界上最为严格的生产和安全测试。CE 的标志证明你所购买的产品符合、甚至超过欧洲共同体对产品的一致性和消费者安全的所有要求。

本设备经测试和符合 FCC 规则第 15 部份 B 类 数字式设备极限。这些极限设定了为住宅设施中有害的干扰提供合理的保护。本产品能产生、使用或发射射频能量。如非按手册指示安装和使用有可能对电波通讯造成有害的干扰。不过，这并不能保证在某种安装中不会产生干扰。如果本产品对收音机或电视机接收造成干扰，可把器材开关机以确定，用户可尝试用下列一或多个方法更正干扰：

- 更改接收天线方向或调迁位置
- 增加设备和接收器之间的分离距离
- 将设备连接到与接收器不同的交流电源线路
- 咨询经销商或有经验的收音机电视技术员帮助

小心：未经生产商批准而对这设备进行变动或更改可能使用户无法操作设备。

本手册的内容是随时没有通知下变更。最新版可红从我们的网站下载 <http://www.classeaudio.com>。

重要安全说明

注意：

请仔细阅读并保存本手册中的所有警告、说明以及标记在设备上的提示语。保留本用户手册，以备后用。

1. **切勿自行修理本设备。**在任何情况下，都不要打开盖子。产品内部没有需要用户自己修理的零部件。当设备被打开的时候，尤其是如果该设备还连接着交流电源，就会存在潜在的会致命的电击危险。如果用户遇到任何问题，请与专业的维修人员联系。
2. **为了避免火灾和电击危险，切勿把本设备置于水和潮湿的环境中。**如果有液体进入了设备的零件中，请立即断开交流电源的主线，并送至 Classé 经销商，进行一次彻底的检查，看是否有损坏。
3. **切勿把该设备靠近任何发热源**，比如电暖炉、微波炉等等，并且避免太阳光直射。
4. **只与具有正确电压的交流电源连接。**装运包装和设备的后面板序列号标签上都注明了规定的适当电压。不按规定使用的任何电压都可能会损坏设备，同时保修书也会随之无效。
5. **交流电源线应有序安装线路，避免被踩踏、或被堆放物品或被挤压。**切勿为了接近插座，硬拉交流电源线。如果交流电源线有破损之处，请送至 Classé 经销商处，进行一次彻底的检查和适当的修理，如果有必要，进行调换。
6. **如果长时期不需要使用该设备**（假期，等等），请拔掉交流电源上的电源线，以防止因电压冲击或者雷击而引发任何问题。
7. **切勿**用任何液体弄湿本产品的内部器件。
8. **切勿**把液体直接倒在或者泼在本设备上。
9. **切勿**堵塞通过通风口或者散热器的气流。
10. **切勿**并联保险丝。
11. **切勿**使用规定规格或型号以外的保险丝。
12. **切勿**自行修理本产品。如果遇到问题，请与 Classé 的经销商取得联系。
13. **切勿**把本产品置于极高或者极低温度的环境中。
14. **切勿**在爆燃性空气环境中使用本设备。
15. 在雷雨天气中，**请**拔掉敏感电子设备。

请记住你所购买的新 Classé 音响设备的序列号，以备后用，序列号如下。

序列号：_____

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欢迎使用驾势产品

祝贺你购买了驾势的产品。驾势品牌历经不断改进，已日趋完善，我们深信你一定能够在今后多年的使用中享受到驾势所给你带来的乐趣。

我们一向注重与客户的关系。在你提取新产品之时，为使你永远铭记我们的产品，请让我们通过你返还的保修卡与你保持联系。这样做，可让我们通知你将来的任何或你可以得到的驾势产品的升级版本。

送回你的保修卡，该产品即在本公司进行登记，即使将来你一时找不到你的购买单据，也能得到快捷和方便的保修服务。

**请用几分钟的时间将保修登记卡填好，并将其寄回我公司。
保修登记卡在所附的单独保修手册的末尾。**

你会在包装箱内，单独的保修政策小册子后面找到保修卡。

安装说明

为了让驾势 CP-700 的安装变得简单明了，我们已经付出了不懈的努力。

尽管如此，我们仍旧无法知道其它的许多变化性情况，比如你的房间的大小和形状、音响设备以及与前置放大器一起使用的相关设备。所有这些因素将影响到你系统的最终性能。

正是出于上述原因，我们强烈建议由你的经销商来安装和调试你的系统，他们的经验、所接受的专业培训和特殊装备将对系统的最终性能产生深远的影响。

开箱和安放

打开前置放大器的包装

按照所给的提示，小心打开你的前置放大器包装，并将纸箱中的所有配件取出。



警告!

为便于将来搬移方便，请保留驾势产品的所有包装物。如果搬运机器时使用非专用的包装物，则有可能导致机器损坏，而这并不在保修范围之内。

安放

和使用其它任何前置放大器一样，最佳的方案是将 CP-700 放置在系统的中央，因为它是连接其它所有组件的中心。同时，由于你通常对前置放大器的操作要多于对其它组件，所以还应将其置于合适的高度，以便于观察和使用（如输入、调节音量等）。

注意：必须在 CP-700 背后为交流电源线和连接电缆留出适当的位置。我们建议你在前置放大器的后面留出 8 英寸（20 厘米）的自由空间，让所有的电缆有足够的空间弯曲，同时又不被压皱或产生过度张力。

驾势建议客户不要将机器放置在电源放大器的顶部表面（或其它热源表面）。

通风

在正常操作状态下，驾势前置放大器会产生一定的热量。请确认机器的上部留有 3 英寸的空间，机器两边均留有 3 英寸的空间，让产生的热量通过空气循环散发掉。不要将机器放置在软性的表面上，那样会阻碍气流的运动（如放置在绒毛毯上）。

定制性安装

本手册附有图纸，用于帮助某些特定安装和定制承载的家具（参看“尺寸”一节）。本产品还附有一个选择性的、专门设计的机柜安装工具包。有关详细情况，请与你的驾势经销商联系。

序列号

本前置放大器的序列号位于机器的背面。请注意并在“重要安全提示”一页上记录下此号码，留作日后使用。

购买注册!

找到序列号后，就请填写注册卡。请对你购买的产品填写好注册卡，以便我们通知你升级版本和其它相关事项。

填写只需很短的时间，请立刻开始，以免忘记。

工作电压

CP-700 的操作电压已在工厂设置（机体内）。分别为 100V，120V，230V，或 240V 交流电源。不同的设置是为了适合产品销往的不同国家的电源。（根据 CE 规格，230V 的设备只在欧盟国家使用）。用户不能自行更改产品的操作电压。

请确认前置放大器后面板标签注明的是适合你国的正确工作电压。如使用不正确的电压操作前置放大器，可导致机器损坏。

警告!

用户不得更改前置放大器的电压设置。机器内无任何用户可以维修的部件。如有问题，请向驾势的服务中心咨询。

如果前置放大器标明的交流电压不正确，请与当地授权的驾势经销商或分销商联系。

CP-700 可容易地用 15 安的交流电源线进行供电。如果其它器件也由同一交流电源线供电，则应该将其增加的电源消耗计算在内。

CP-700 带有保护性电路，可防止前置性放大器在危险性的高电压或低电压下工作。

- **启动阶段：**在启动阶段，供电的交流电源电压应在低于正常电压约 15% 和高于正常电压 10% 的范围之内，否则设备就不能启动。例如，120V 的设备的交流电源电压应在 95V-135V 的范围之内，设备才能启动。
- **操作过程中的过电压保护：**在操作过程中，如果供电的交流电源电压超过正常值的 10% 或更多，设备将会进入保护模式并会关闭。**待机 LED** 将会闪动，表明设备进入保护模式。在 LCD 触感屏幕上会显示一条错误信息。
- **操作过程中的低压：**在操作过程中，如果供电的交流电源电压低于正常值的 15% 或以上，设备将会继续操作（因为低压不会对设备造成特殊的危险），但需注意的是，设备不能具有其正常的性能标准。**待机 LED** 将会闪动表明出现低压操作。



预热和调试阶段

你的新驾势前置放大器将会很快发挥其卓越的性能。不过，你需要知道，在达到正常工作温度时，各种部件需要自行适应，因此机器将有一个逐渐进入佳境的过程。我们的经验表明，在开始的 300 小时内，随着前置放大器达到热平衡和电容器完全成形，所发生的变化最大。在此调试阶段过后，你产品的性能将在今后的数年内保持非常稳定的状态。

上述调试结果的唯一例外是，机器长时间内被拔掉插头，让其冷却。根据冷却的程度，在前置放大器达到最佳音响效果之前，机器将有一个预热的阶段。除非前置放法器已达到冷冻的状态，否则随后的再次热稳定不需要太长的时间。但庆幸的是，你不需要重复最初的 300 小时调试阶段。

请阅读本手册...

请花几分钟时间来阅读本手册，以使你了解前置放大器的各项性能。我们能理解，你很渴望将各个插头插上，让其开始工作。不过，阅读本手册并遵循其中的说明，将确保你从购买的优良设备中获得所有应得到的利益。

产品的设计特点

灵活的图形用户界面

你的新机器前面板上的 LCD 触摸屏支持异常灵活和多样化的图形用户界面 (GUI)，同时保持清洁和整齐的外表。CP-700 可提供一系列的控制，如使用其它设计，或许需要在前面板上设置数十个按钮和旋钮。除了此强大的功能和灵活性以外，在机器天天使用时，其操作亦很简便。

事实上，还有一些其它方面，操作比传统设计更加简便。例如，如果你不使用 CP-700 上面的一个或多个输入，你可以从操作菜单上删除不必要的按钮。这样做可以防止任何人试图选择不存在的源组件，造成音频缺失所带来的混乱。（当然，如果你以后增加另一个源组件，需要该输入，你也能很容易地恢复此按钮。）

可调性音量控制

你的驾势前置放大器上的音量，是通过一个精密的软件控制的，它使你调整音频响应，达到你喜欢的状态。

理想的情形是，音量控制能够让你很快调到你需要的音量，并在接近“完美”的音量时，提供精确的微调。当然，这些特点也是互相矛盾的：有人或许要求在给定的旋钮扭动量内，音量可达到较大的改变，其它人则要求在统一旋钮上，具有较小、递增的音量变化。

CP-700 上的音量控制系统，可根据特殊的情形（如你扭动旋钮有多快以及你所处的音量范围），通过不同的响应来解决此问题。我们经过广泛的测试后，进行了出厂默认值设置，使大多数用户能直观使用，并享受到其中的乐趣。不过，如果为了适合你的特殊爱好，你想更广泛地调节其性能，你也可以很容易地做到。

精确的电路设计

所有驾势模拟放大分级都是基于经过多年连续研发、达到全面优化的电路上而设计的。

从优良的电路设计开始，并经过多年的使用，我们能在各种应用中，发现许多小的精密设计，正是它们是产品达到了卓越的性能。在某个地方改变电压，或在另一地方使用稍有不同的部件，都可以在固有和优越的性能之间带来变化。

此类程度的精密设计仅可源自我们丰富的经验，而那些只追逐潮流的人是不会做出此类设计的。不论就驾势产品（它们均基于类似的模拟增益级）的音频性能一致性，还是用户和各方人士对产品所做的一贯优良的评论，我们的设计均不可小视。

泛听测试

用户总是期待世界级的产品具有经过检测的卓越性能，而这正是驾势产品所提供的。然而，经验告诉我们，仅有卓越的技术还不足以保证由主观确定的音响效果。

基于上述原因，所有驾势的产品，在研发阶段就通过仔细控制的听音测试，进行试验室内的调试。我们的耳朵也是可得到的精密实验室测试仪器的一部分，同时还伴随有更多的传统研发测试仪器。在对产品的电路进行优化的过程中，需基于一个高质量的部件来代替另一个所带来的主观印象，做出数百个决定。

例如，就不同公司生产的具有相同值的薄膜电阻组件，我们可听出半打 0.1% 的容差。标准测试会显示，它们均在噪音、失真和其它方面具有相同的效果。但几乎不变的是，一个选择在开发中的产品性能的主观反应中，会带来一些小的进步。甚至有时候，这样一个变化会导致产品令人称奇的改进。

通过数十个甚至数百个此类决定，可对产品带来各种改进，而这些决定必须在最终投产之前做出。这样，你就确实取得了显著的成就，它们都是基于仔细的听音测试。我们把听音测试视为你对驾势所期待的固有开发程序的必要补充。

超长的使用寿命

我们若干年的广泛的高精确的电路设计的另一个好处就是，我们深刻领会何种电路能很好的工作较长的时间。

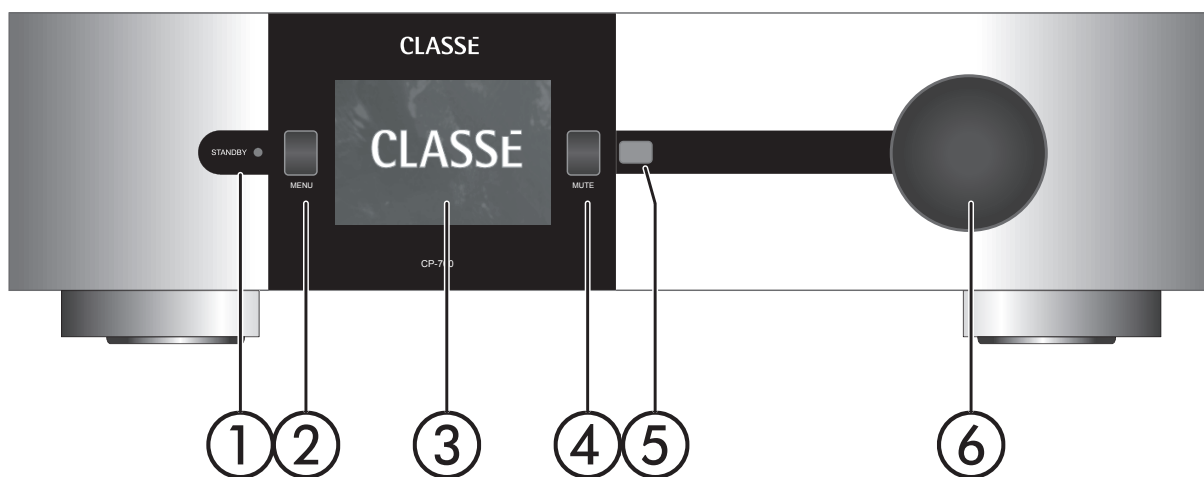
仅使用最优质的部件，然后多次经过加速老化测试和实际长时间使用测试，我们就能设计和生产出一定能经受得住测试时间考验的产品。

我们确信，正如我们以前销售给其它消费者的产品一样，你的新前置放大器一定能在未来许多年内给你带去可靠的音乐享受。

强大的独立电源

CP-700 采用外置电源，对产品性能的提供根本支持。该单元包含一个大型的 135VA 环形变压器，有五个复卷绕组，提供每个通道所要求的正负极电压最大限度的绝缘，以及提供前置放大器内部控制电路所使用的电压。

该设计方法保证了前置放大器本身只能获得 100%、高度稳定的直流电源，用于处理音频信号，而同时，高压交流电源与你的音乐安全隔离。简言之，它创造一个理想的环境，让 CP-700 体现出最佳性能，满足你欣赏音乐的需要。



前面板

1 待机按钮 (Standby) 和 LED 指示灯

前面板上的 **Standby** 按钮可以触发前置放大器的不同操作，在按钮的完全操作状态下，*standby* 模式会让设备处于关闭状态，但是也会通过任何支持的控制选择（如 IR 输入，DC 触发器，CAN 总线或 RS-232）对系统的命令做出反应。

前置放大器的当前状态会通过待机按钮中间 **LED** 指示灯反映出来。当设备通电并开启时，LED 的显示状态如下：

- | | | |
|-----------|---|---------------------------------|
| • 亮 | = | 待机 (<i>standby</i>) |
| • 闪 (通电时) | = | 初始化 (<i>initialization</i>) |
| • 熄灭 | = | 操作 (<i>operate</i>) |
| • 亮 (暗) | = | 显示暂停 (<i>display timeout</i>) |
| • 闪 (通电后) | = | 交流电源电压超出规定范围 |

如果你打算长时间不使用你的前置放大器，如假期或其它旅游时，我们建议你将前置放大器和电源断开。在断开电源之前，请务必确保设备处于待机状态。

另外，从物理的角度来说，在雷暴天气，也应该将任何带电子的设备与交流电源断开，因为雷电会给交流电源带来巨大的电涌，从而会损坏任何设计和保护良好的电子设备。在强雷暴天气，对电子设备最好的保护就是简单地将其从电力网断开。

2 菜单按钮 (Menu)

按前面板上的 **Menu** 按钮会激活主菜单系统，从而代替常规操作菜单，操作状态将会在 LCD 触感屏幕上显示。

3 LCD 触感屏幕

许多你和 CP-700 的互动都是通过 **LCD 触感屏幕** 完成的 (CP-700 带有遥控)。LCD 触感屏幕通常会显示你日常操作中使用的各种输入选择按钮，并进入磁带 Tape 按钮。

按 **Menu** 按钮，你也能激活 CP-700 的主菜单系统，你就能控制前置放大器操作了，包括菜单系统设置，各种显示选择 (包括菜单系统自动显示的语言，)，以及几个可以将 CP-700 与复杂系统进行高级连接的传统安装性能。

更多信息，请参看说明书的“菜单系统”一节。

4 静音按钮 (Mute)

按一下前面板上的 **Mute** 按钮会将前置放大器的声音消除。再按一次就会恢复先前的设置。静音的调控可按需要制定。有关此功能的设定方法，请参阅音量设定部份。

然而，当设备处于静音状态时 (**Mute** 按钮被按下时)，如果你手动增加音量 (使用 **声音按钮** 或 **遥控**)，静音就会失效，声音会被设置为零。这样做是为了安全起见，避免设备的声音在静音状态时被调高到非静音状态下不希望听到的水平。

5 IR 窗口

红外线 (IR) 接收器和发送器被置于窗口的后面。通常情况下，你的 CP-700 要能从窗口“看见”遥控器以便能对遥控器的命令做出反应。

在前置放大器的正常操作过程中，如果它是被放置在封闭门的后面或由于其它原因窗口被挡住而不能“看见”遥控器，你可以使用后面板的 **IR 输入** 和 **输出** 接口以及 **IR 转发器** 系统来解决这个问题。关于使用红外线转发器系统将信号传递给前置放大器的详细情况，请参考说明书的“后面板”一节，或联系你当地的 Classé 经销商。

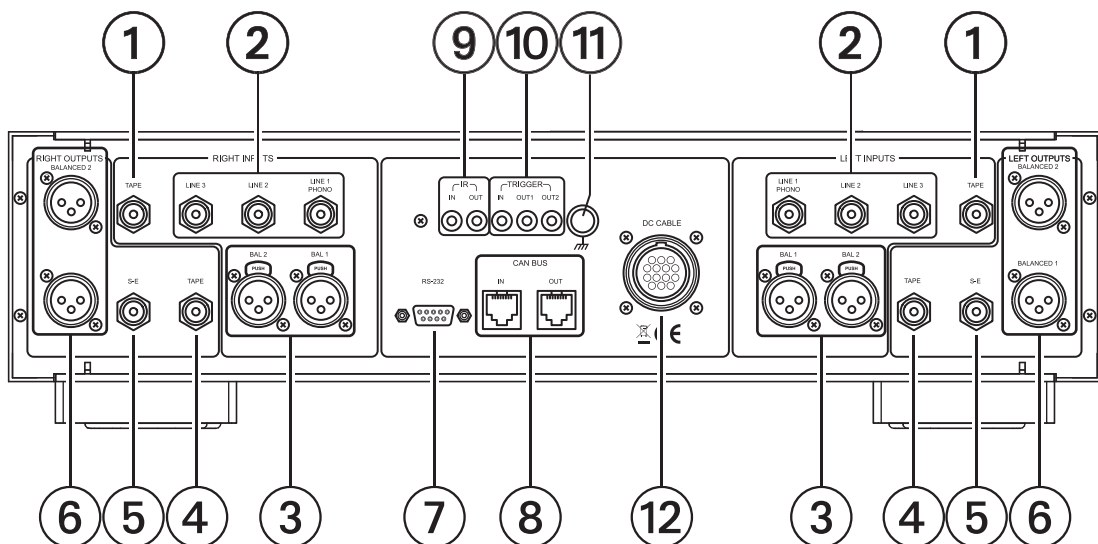
除了接收 IR 命令外，CP-700 还能传送 IR 命令，所以它能供第三方学习遥控功能。CP-700 包含一套不连续的的综合 IR 命令，从而使可靠的宏指令的创造更加方便。明确地说，所有命令都是不连续的编码，这些编码正常情况下作为切换功能进行操作（如，除了两钟状态之间切换的正常命令外，独立的“操作”和“待机”命令）。

6 声音按钮 (Volume)

CP-700 前面板右边大的**旋钮**是用来控制系统的声音的。

在听音乐的时候，在整个设备最可能使用的控制范围，声音的增减精确到 0.5dB 的增量。

在最低的声音范围，步长略为增加，以便在最低音和正常听音之间的调节移动得快一些。



后面板

1 磁带输入

要连接上任何录音设备（模拟磁带录音机，数字磁带录音机和 CD 唱机等）的模拟输出端，你得使用这些单端 **RCA** 连接器。通过接触 CP-700 主操作屏幕上的磁带 **tape** 按钮，你可以选听你的录音设备的输出。

2 单端 RCA 输入

这些 RCA 插口可接收线声源设备如调谐器，CD 机和磁带机芯的左声道和右声道（单端）的输入。任何输入都可以通过触摸前面板触感屏幕的主操作屏上的相应的按钮来选择。

为了达到可能的最佳效果，我们建议你只使用高品质的铠装互连缆线。请向你当地的 Classé 经销商咨询你的系统使用的最佳的缆线。

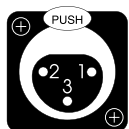
可选的唱机前置放大器

如果你要在你的系统上使用转盘，你可以从你的 Class é 经销商处购买到可选的唱机前置放大器单件，一旦你将其安装到你的前置放大器内，**Line 1** 输入连接器就成为你的**唱机**输入，同时，菜单系统内的**唱机增益**控制被激活，这时你就能为动磁式（MM）和高输出动圈式（MC）盘式磁带选择**低增益**，为标准输出动圈式（MC）盘式磁带选择**高增益**。（详细情况请参看“菜单系统”一节。）

3 平衡（XLR）输入

LCD 这些 **XLR** 插口可接收来自于有平衡输出的源设备的右声道和左声道平衡信号。这两种输入都可以通过触摸前面板 LCD 触感屏幕的主操作屏上的相应的按钮来选择。

XLR 的阴极输入连接器的引脚的分配:



引脚 1: 信号接地

引脚 2: 信号 + (正相)

引脚 3: 信号 - (反相)

连接器接地线片: 底盘接地

参考平衡输出线电平源的操作手册检验它们的输出连接器是否符合 CP-700。如果不符合, 则对缆线进行重新布线, 以使正确的输出插脚连接到对应的输入引脚。

为了达到可能的最佳效果, 我们建议你仅使用高品质的铠装互连缆线。请向你当地的 Classé 经销商咨询你的系统使用的最佳的缆线。

4 磁带输出

将这些 RCA 接口连接到你的录音机的右声道和左声道录音输入端。

这些单端 RCA 输出未受到前面板声音控制的影响, 也不会受因为你选择监视声源或录音机 (按前面板触感屏幕上的磁带 (Tape) 按钮分别取消选定或选定) 而受到影响。然而, 当前置放大器处于待机 (standby) 状态时, 录音输出将会被断开。

5 单端 (RCA) 主输出

使用 RCA 连接器的单端缆线是消费类电子产品模拟连接最常用的形式。当你谨慎执行并配合高质量的互连缆线使用, 它可以为你提供最优良的性能。

Classé 已经尽了最大的努力让你的前置放大器的单端 (RCA) 输出尽可能的优良。然而, 这个连接标准不可能免除平衡互连接的干扰。因此, 我们推荐你尽可能使用平衡输出。

如果你没有使用平衡模拟互连接, 那么使用高品质的 RCA 终端铠装式缆线将这些单端输出连接到你的前置放大器/处理器。你当地的 Classé 经销商会向你推荐最适合你的系统使用的缆线。

6 平衡 (XLR) 主输出

这些 XLR 输出为你的前置放大器提供高质量平衡立体模拟信号。使用高品质的铠装式平衡连接将这些输出连接到你的电源放大器对应的平衡输出。你当地的 Classé 经销商会向你推荐最适合你的系统使用的缆线。

起初，平衡音频互连接的开发是在专业音频世界进行的，用来保持极小的麦克风级别信号之间的细微差别。许多年来，许多以性能为导向的消费品公司，如 Classé，也开始使用平衡音频互连接来保持你收藏的类似产品的音频性能的微小差别。

从技术上来说，平衡音频互连接能为你带来两个明显的好处：它将从一部件到另一部件传递的信号强度加倍，从而将潜在的信噪比提高 6dB；同时，它也能很好的抑制由于 EMI（电磁干扰）和 RFI（无线电干扰）而造成的，部件之间可能接收到的噪音和干扰。在当今无线通讯的年代，我们的周围可能会比一前有更多潜在的干扰存在，因此，我们应将这些干扰从排除在我们的音乐和电影声带中之外。

也正是出于这方面的原因，我们强力推荐你在你的 Classé 部件之间尽可能使用平衡音频互连接，特别是当你打算在你的前置放大器和电源放大器之间使用长的互连缆线以减少扬声器电线长度时，你应该使用这种连接。

XLR 的阴极输出连接器的引脚的分配如下：



引脚 1：信号接地

引脚 2：信号 +（正相）

引脚 3：信号 -（反相）

连接器接地线片：底盘接地

这些引脚的分配和音频工程协会 (Audio Engineering Society AES14-1992) 采用的标准一致。

如果你是将 Classé 前置放大器和 Classé 电源放大器一块使用，设置如下：取出标准平衡互连缆线并将其插入插孔即可。

如果你使用的是其它品牌的电源放大器，请参考你的电源放大器的操作手册以确保其输入连接和 CP-700 的对应。如果不对应，让你的经销商给放大器进行布线以便正确的输出插脚对能插入对应的输入引脚。

7 RS-232 控制端口

DB-9 连接器有两个用途：

- 下载新的操作软件到你的前置放大器（例如，也许是曾经新添加的功能）。
- 通过控制系统如 i-Command™，AMX® 以及 Crestron™，对你的前置放大器进行内控。

有关家居自动系统的进一步数据，请联络你的经销商。

8 Classé CAN 总线控制端口

使用将来 Classé Audio 控制局域网的提供工具，**RJ-45** 连接器是预备来控制 and 通讯用的。

9 IR 输入和输出

你的 Classé 前置放大器带有两个 1/8 英寸的**输入接口**以便能支持当今普遍采用的红外线 (IR) 遥控。例如，除了**操作或待机状态**的不连续的命令编码外，红外线命令还可以退出切换前置放大器**操作或待机状态**。这些编码可用于精细遥控系统的“宏”，这样就便于前置放大器的控制能在一个更大范围的完整系统进行。

可使用的命令非常广泛，甚至能让复杂的宏（一串命令排列在一起）进行无故障操作。如果你对这种性能感兴趣的话，我们强力推荐你和授权的经销商进行沟通。

注意，*IR* 输入和输出在这里有点用词不准确：这些插头的输入和输出是电气特征，而不是红外线特征。这些插头是配合标准 IR 接收器，分配放大器和发射器（可从经销商处购买）使用，将遥控 IR 信号转换为电信号，反之亦然。这种方法最大的好处是能容易地将信号传送到需要的地方，还有能提供可靠的固定电连接。

由于 IR 分配系统（通常情况下，你的经销商可以给你设计）必须能控制许多产品，你的前置放大器有 **IR 输入**（用于产品的控制）和 **IR 输出**（用于将相同的信号传递到另一产品）。这样能让将你的控制缆线从一产品“菊链”到另一产品。

使用微型插头末端（相对插头的底部，将末端定义为阳极）你的前置放大器可以对 5 VDC 的 IR 命令做出反应。



10 DC 触发输入和输出

为了能得到期望的状态，许多音频/视频部件都能为关联的设备提供直流控制电压。你的 Classé 前置放大器能充分利用这些性能，以便能在自动切换前置放大器的操作和待机状态，通常是和 A/V 前置放大器保持一致。

1/8 英寸的输入接口触发输入 **Trigger In** 为前置放大器提供了遥控开机功能（即切换操作和待机状态）。

两个 1/8 英寸的输入接口提供独立的可控制直流触发输出，这些输出可用于“菜单系统”一节描述的众多用途中的任何用途。例如，你的经销商可编制**触发输出 1 Trigger Out1** 程序，切换和 CP-700 连接的 Classé 电源放大器的操作和待机状态。

使用以下末端极性，遥控触发输入可对 5-12VDC 的电压作出反应：



同样地，该触发输入会产生一个能支持 100mA 电流的 12VDC 信号。

11 接地端

假如您有安装选购的唱头放大附件，您的前置放大器接地端最常用应是唱片转盘的接地，（如果您感兴趣，请联络 Classé 授权经销商有关更多关于这个选购附件的资料）。从您的唱片转盘的唱臂接地导线连接到这个螺丝终端通常可使交流杂音和噪电减到最小，否则转盘是易受到干扰。如有需要您的 Classé 授权经销商也可以协助您处理这个问题。

12 直流供电输入

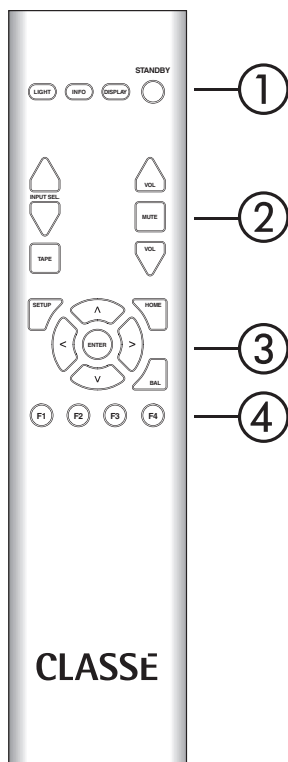
CP-700 **直流供电输入**位于后面板的中间部位附近。把外置电源供应器的多线芯电线连接在和这个连接器上就可以为前置放大器提供干净纯净的直流电。

在外置电源供应器的后面同时设有交流电开关。在前置放大器的多芯电线接好后，将交流电开启令前置放大器进入准备状态。在关掉交流电之前前置放大器也需要处于准备状态。



警告!

即使你的前置放大器已经从交流电源断开，但它还是存在潜在的危险电压和电流。不要试图打开前置放大器外壳的任何部分。你的前置放大器无用户可自行维修的部件。产品所有的维修都应咨询合格的授权 Classé 经销商或分销商。



遥控

你新购的前置放大器配有一个多功能**遥控器**，用来控制 CP-700 和基于 Classé 系统的测试个功能。所有按钮都是按其功能进行照逻辑分组。

1 基本功能

设备上方的这四个遥控功能成一个组，能控制你和 CP-700 基本的互动沟通。

- **Light** 打开遥控器的背光灯，以便在弱光环境下能更好的看见功能键进行操作。一会过后，背光灯就会自动关闭。
- **Info** 直接带你到 LCD 菜单系统的状态屏幕，屏幕会显示几条 CP-700 的信息和当前的操作状态。
- **Disp** (显示) 会让屏幕显示器的三个亮度设置循环。
- **Standby** 会将 CP-700 的待机和操作模式进行切换。

2 输入选择

Up 和 **Down** 箭头键能在 CP-700 的输入之间进行循环。

如果设备内有你不使用的输入的话，我们建议你将其撤消，以便你能更快，更容易地进入你要使用的输入。（详情请参考“菜单系统”一节。）

在遥控的右边的 **Up** 和 **Down** 箭头键会将音量调高低。中间的方形键是用作启动 CP-700 的哑音功能（如菜单系统的定义；请参阅菜单系统有关更多哑音方面的选项）。

3 导航键

遥控器的中部是导航键。按钮的排列和你看见过的 DVD 遥控器的差不多。这些按钮用来进行 CP-700 菜单系统的导航。

- **Home** 将你带回 CP-700 前面板上 LCD 屏幕正常显示的输入选择控制。这样，不管你处于哪一级菜单，都能很快的返回正常操作状态。
- **Menu** 具有两个功能：当你想要调整某项功能时，它能激活菜单系统；当进入菜单系统时，按 **Menu** 就能返回上一级菜单系统。如果是在第一级菜单系统，按 **Menu** 就会返回正常显示状态。

- **平衡键** (Bal)：让你直接进入菜单系统的**平衡**画面。一旦进入，你可使用遥控器上的导航键，选择 LCD 触摸屏上的**左**或**右**按钮，这取决于你要朝哪个方向移动平衡。使用遥控器上的**确认**键，“按”下显示屏上的适当按钮，即可调节系统的左右平衡。
- **上/下/左/右键** (Up/Down/Left/Right)：使用它们可在特定的菜单画面进行移动，根据听音的舒适情况，按需要改变选定项的上下左右。
- **确认键** (Enter)：选择已选定的项，与你按下 LCD 触摸屏上按钮的效果一样。
- **磁带键** (Tape)：在本质上，它不是导航键，但可让你很容易地在欣赏所选音源和录音设备的输出之间进行切换。如果你有一个录音设备（如三头式磁带机），可在录音时同时播放，你可以对录音的音质与原信号进行比较。

4 功能键控制 (Fkey)

CP-700 的遥控器也可控制自定义的功能。**F1/F2/F3/F4** 键用于控制遥控器上其它按钮未包含的 CP-700 功能操作。

在按下某一特定 **Fkey** 键时，你可以选择让 CP-700 如何回答其所发出的红外线信号。其潜在功能非常广泛，可在菜单系统中找到相关信息（参看本手册下一节：“菜单系统”）。

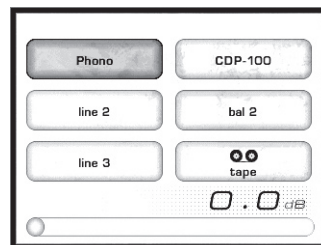
警告!

所有驾势遥控器上的 **Fkeys** 键都发出相同的红外线信号。这可以让你放心，你选择的遥控器是正确的，因为所有驾势遥控器对每个 **Fkeys** 的具有相同的功能。

菜单系统

CP-700 包含功能强大的 **LCD 触摸屏**，支持美观的信息显示和灵活的菜单系统，其特点是使用直观且范围非常广泛。用户手册上的本节将阐述菜单系统中的许多功能。

操作菜单



操作菜单让你很容易获得前置放大器的大多数基本功能：**输入选择**和**磁带检控器**。它还提供当前**音量**设置的数字和图形描述。

输入选择

按下触摸屏上的任一输入键，即可进入相关输入。你总共有三条线输入（使用 RCA 连接器的单端连接）。如果你的系统没有这么多声源，可选择让未用的输入处于不活动状态。这样就可以将有关按钮从触摸屏上取消，以使不经常使用系统的人操作时更容易。

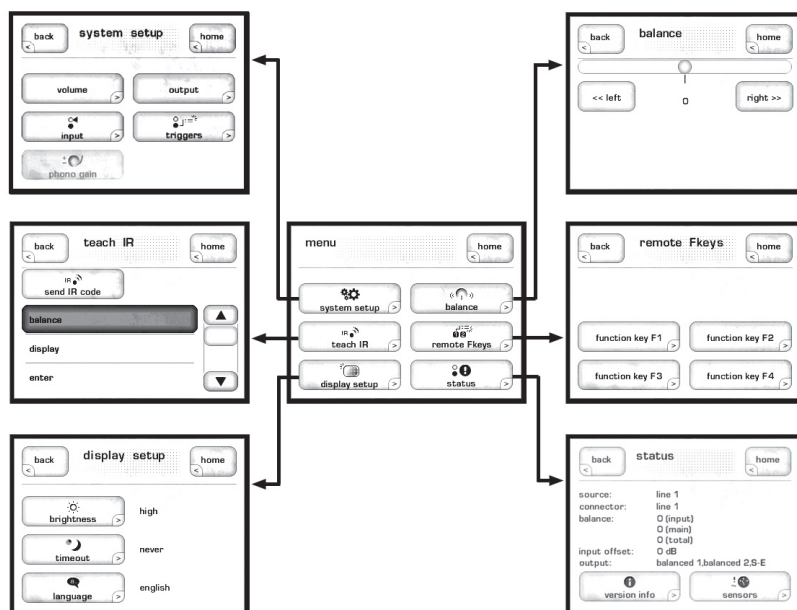
磁带回路

此外，CP-700 还有一个专用的**磁带回路**，用于能录音和回放的声源，使你能连接到 CP-700 的声源总数达到六个（四个单端和两个平衡）。

当你触摸**磁带**键将其选定时，你会发现原来选定的输入保持突出状态。选择任何输入作为听音，也同时选择了可能的录音。信号将被复制传输到与磁带输出相连接的录音设备上。你可选择录下或不录下

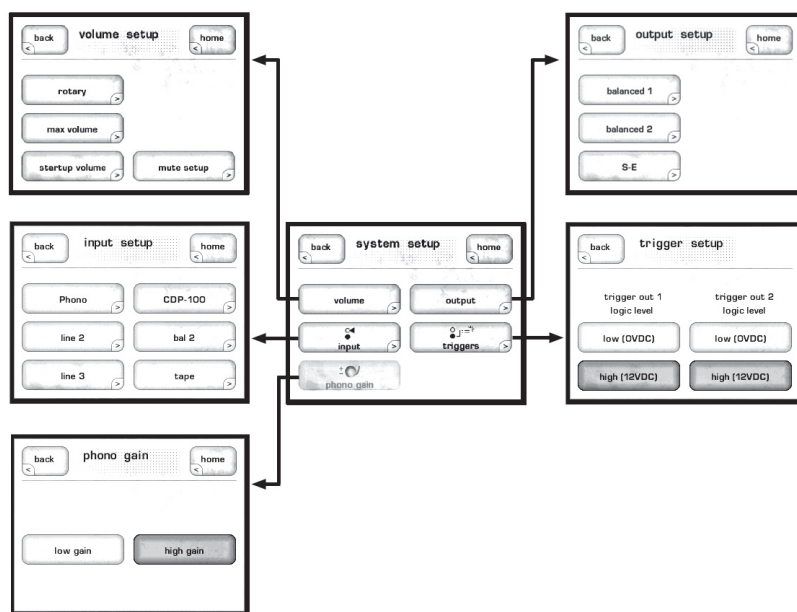
在选择了**磁带**键后，即要求 CP-700 继续录音信号输送（无论是否在使用），同时切换至监控磁带机（或 CD 录音机、其它已连接到录音回路的设备）输出。这样，你在录音时，可实时监控录音效果。（这需要你的录音设备支持此功能，如三头磁带机）。

主菜单系统



按前面板上的**菜单**键，至 **LCD 触摸屏**的左边，带出综合主菜单系统，顶上两级显示如上图。该菜单的特点是提供定制性安装，让你定制如何使 CP-700 与你的特定系统一起工作。

系统设置



控制菜单的第一个按钮让你进入一系列子菜单，集中提供大量系统设置用的控制操作。在这里，你可以：

- 定制音量控制的动作；
- 按你的个别音源组件设定输入
- 调节选择性唱机模块的增益；
- 激活和命名三组主要输出；
- 对 CP-700 的 DC 触发器动作进行编程。

音量 按**音量**按钮，进入音量设置菜单，其中依次有四个子菜单，均与系统音量的管理有关：

- **旋转**
- **最大音量**
- **启动音量**
- **静音设置**

下面介绍这四个子菜单

旋控 前面板的旋转旋钮并不直接控制音量。相反，它控制电路，再由电路控制音量，其逼真度和精确度比传统的音量电位器要高得多。

由于音量控制电路处在软件的控制之下，可以在各种不同的条件下设定其工作状态。为了更好地理解其重要性，可设想下面两种情况：

甲将对达到精确音量设置非常注重，因为它可以使音乐最真实地表现；对他而言，享受其音响系统最关键的是，能够以一分贝的量来轻易调节音量设置。

乙只想容易地将低音量调节到可听的水平，他更关心的是能够很快扭动旋钮达到他所需要的音量，而不是精确度的细微点。

你可以看到这两种情形下所包含的问题所在：甲对音量控制要求非常精确的分级，这使得从非常低的设置到正常听音的水准，需有许多旋转；乙需要的是从通过快速旋转旋钮即可从一个音量达到另一个音量，为达到这样的音量调节范围，需在如此小的空间里进行较大的分级。假如甲和乙同住在一间房屋里，会发生什么情况？或者，在某种心情下，如果丙想需要此两种功能，又会怎样呢？（事实上，大多数人都跟丙相类似。）

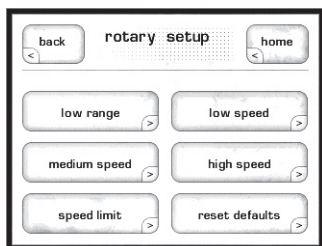
驾势利用几个因素来改变音量控制的反应速度以解决这两难。

由于很少会在极低音量（谨能听到）下聆听，音量控制的低音量调节反应可以更为快捷，即低音量时旋钮返应更为敏捷。当选择这功能时，你会从低音量稍为快上升到中度音量。这效果可能比较难捉摸的，同时在使用极高效率扬声器情况下也许不太理想（因为你会使用到低音量区域来调节音量）。

音量控制中，感知响应的最重要因素是调节旋钮的速度。在我们想要对音量进行大的调整时，我们都自然要把旋钮扭得更快，而当快要达到所需要的音量时，又总会旋得慢一些。因此，如果 CP-700 发现旋钮运动很快，就使用较粗的步进，来有效加速电路的动作。随着旋钮扭动速度减慢，CP-700 将实际增加步进的分辨率，使音量控制的速度减慢，并在选择合适设置的时候，产生更大的精确度。

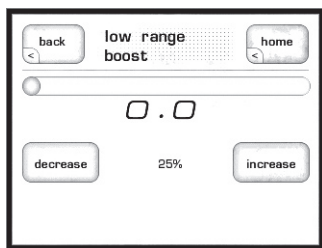
当然，有时候会突然碰到音量旋钮，这也确实会使其转动得非常快。在这些情形下，CP-700 不是不可控制地增加音量，而是再次实际逐渐降低，以作为避免扬声器意外爆裂的安全措施。事实上，如果你愿意，可以设置速度限制，超出该限制范围，旋钮的动作将被忽略。

这些功能的工厂默认设置通常会在使用时显得直观和令人愉悦。不过，如果你更愿意改变这些功能，你可以通过旋转菜单来进行，如下图所示：



所有的**旋转设置**都是互动的。你可以设置一个值，然后调节音量，看是否达到你想要的效果。

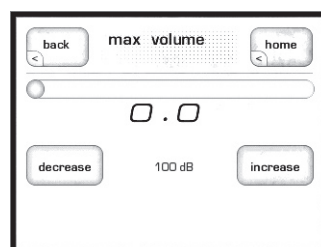
- **低范围：**决定在低音量控制设置时，音量控制响应提升的等级，目的是为了更快地经过。设置为零，即失去此效果；设置为 100，即到达最大值。



- **低速：**决定在旋钮较慢时音量控制的响应。设置为零，在旋钮低速时将导致尽可能慢的音量改变；设置为 100，在旋钮低速时，将导致允许范围内尽可能快的音量改变。（除了“低速”的提示以外，菜单与上一个一样。）

- **中速：**在旋钮以中等速度转动时，决定音量控制的响应。设置为零，在旋钮中速时将导致尽可能慢的音量改变；设置为 100，在旋钮中速时，将导致允许范围内尽可能快的音量改变。（除了“中速”的提示以外，菜单与上一个一样。）
- **高速：**在旋钮高速转动时，决定音量控制的响应。设置为零，在旋钮高速时将导致尽可能慢的音量改变；设置为 100，在旋钮高速时，将导致允许范围内尽可能快的音量改变。（除了“高速”的提示以外，菜单与上一个一样。）
- **转速限制：**设置最大旋转速度，超过此速度，音量将不会改变，旋钮输入被忽略，直到第一次停止，然后以更慢的速度旋转。
- **重设默认：**如果经过许多设置试验之后，你还是更愿意按照工厂的默认设置操作，则按下此按钮，系统将恢复工厂默认设置。所以请尽管放心试验，因为你还可以回到原有的设置。

最大音量



最大音量画面让你为自己的系统设置最大的音量。范围从 0 到 100，若设置为 100，则说明你不想在前置放大器能够提供的最大增益上，设置任何人为限制。

此设置是互动的。你可以将值设置为小于 100，然后调节音量，看是否合适。

启动音量

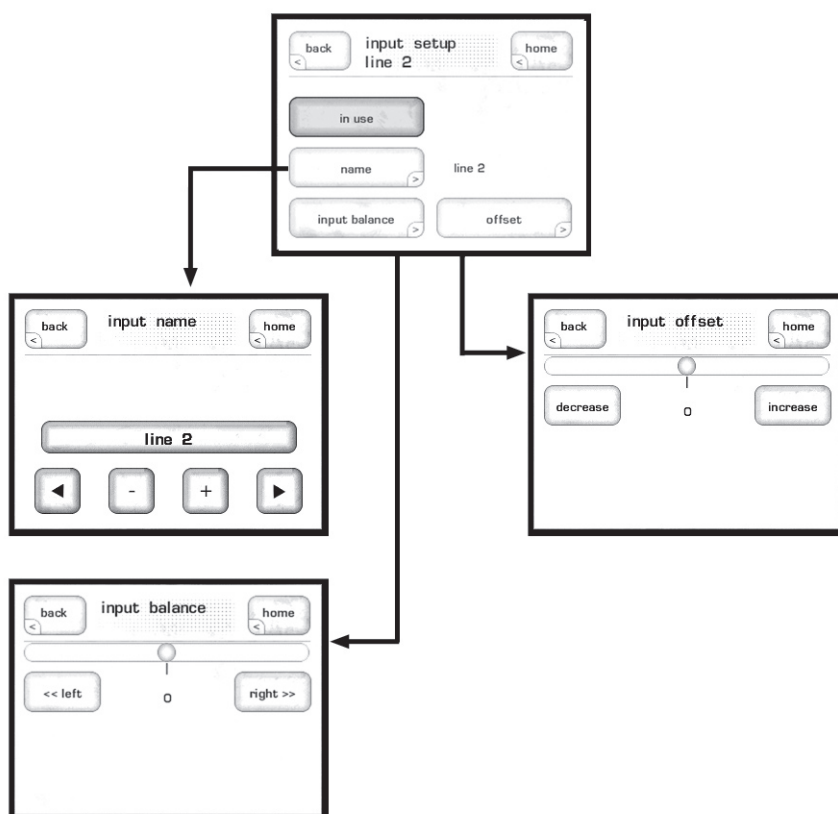
启动音量画面让你定义 CP-700 在启动时如何处理初始音量。启动音量选择有：

- **最后音量：**此设置导致 CP-700 的动作象基本的前置放大器一样，使用简单的电位器控制音量。设置后，无论如何，开启音量都为最后使用的音量。
- **特定音量：**作为替换，你可以选择特定的启动音量。选择特定按钮，然后点击**设置音量**按钮，设定你想要的值。设置音量按钮让你进入即可看到又可听见你的选项的画面（假设你此时正在欣赏音乐）。设定较低的启动音量，可以让你在最初开启系统时，不至于意外地影响到其它人。

静音设置 按下**静音设置**按钮，可选择三种不同的静音功能：

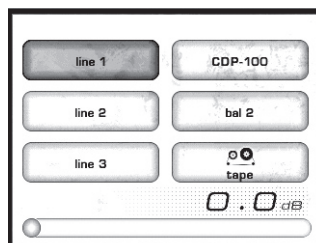
- **标准静音：**标准静音是在使用**静音**按钮时，使输出处于静音状态，听不到任何声音。
- **特定静音：**特定静音使你在使用**静音**按钮时，选择想要的音量设置，不管此前你已经使用何种操作设置。
- **消音：**消音静音如同大多数**静音**按钮工作的那样，逐渐削弱你设定的当前音量。

输入 对前置放大器的每一种输入都可以用几种方法定制，以提高系统的性能或使操作更加简便。浏览一下输入菜单和子菜单，即可对存在的功能有一个总体了解。



- **使用中：**决定所选的输入是否显示在输入选择主画面上，是否包含在通过遥控器输入选择按钮循环的输入之中。
- **名称：**提供设定显示在输入选择主画面上的输入名称的方法。例如，你可以为与输入相连接的 CD 播放机，将 **Bal 1** 命名为“CDP-100”。命名时，可使用输入名称菜单下面的四个按钮，将已有的默认名称改为更能显示你系统特征的名称。

- ◀ 按钮：该按钮类似计算机键盘上的退格键，向左移动并依次删除遇到的字符。
- ▶ 按钮：此按钮可向右移动光标，同时可增加字符。（向右移动时，将每个字符改变成你所要的值，同时使用 + 和 - 按钮。）
- 加减按钮（+ 和 -）：该按钮通过可用字符来改变当前字符。它们包括字母表中的大小写字母、数字 0-9 和各种标点符号。一当改变，主显示屏可变成如下图所示（注意在输入 **bal 1** 后会有什么变化）。



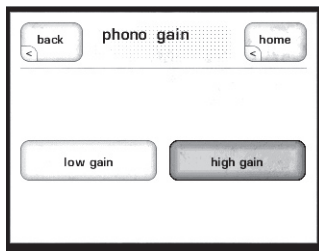
警告！

当一个输入被重新命令为“SSP”时，它就变成了一个联合增益输入。当此输入被选定时，CP-700 的音量控制将失效，所有输入都在线路电平驱动，且音量提示从主菜单上消失。

此功能在下述情况下是有用的：即 CP-700 被用于通过来自带音量控制的设备信号时（如驾势 SSP-300 环绕声处理器），或其中一个输入被传送到带有音量控制的设备时（SSP-300）。在选择 SSP 输入之前，应小心调节其它设备的音量，因为结果音量电平有可能使声音过高。

- **输入平衡：**用于特定输入平衡的补偿调节，这是因为有可能某一特定声源具有微小的不平衡性。由于最精致的手工制作唱头都会遇到声道不平衡的小问题，此功能在电唱盘上相当普遍。
- **输入补偿：**提供各种声源设备之间输出电平差异的补偿。这样做，可以消除在不同的声源设备间切换时所遇到的恼人和急剧的变化。

唱机增益



只有安装了选择性的**唱机增益模块**时，**唱机增益**菜单才是被激活状态。否则呈灰色。安装后，CP-700 将对其进行自动识别，将**线 1** 输入重新命名到**唱机**，并激活主菜单上的输入。

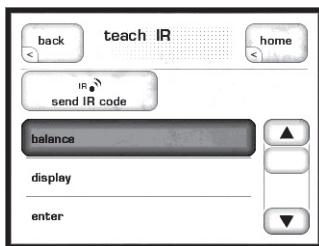
设置唱机增益非常简单：对大多数动磁式唱头以及高输出动圈式唱头，选择**低增益**；对低输出动圈式唱头选择**高增益**。驾势经销商会帮助你确定你使用的是何种唱头以及何种设置最适合。

触发器

每个 CP-700 **触发器输入**都可编程到“逻辑电平”，换言之，在触发器被激活时，无论电压是**低**（0 伏）或**高**（约 12 伏）。此改变触发器“开启”状态电平的功能，可以解决在定制安装中所遇到的问题，此类问题通常在安装即增加成本又增加系统复杂性的外部设备时出现。

如果这听起来让人感到模糊，也没关系。它只是产品设计的一个特点，其所要解决的问题你也许不会碰到。但是，系统安装专业人员能够在此类问题出现时，很容易地将其解决。

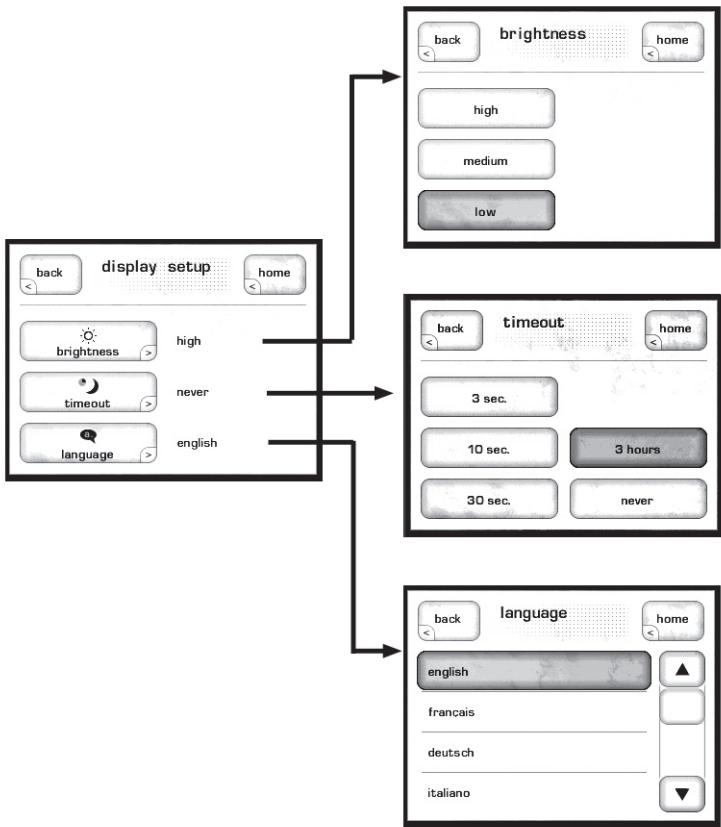
导入 IR



CP-700 为所有功能提供不连续的红外线（IR）命令代码，其列表远远超过了普通遥控器的要求范围。不过，如果你想创键定制的遥控器，具有控制整个系统的宏，许多功能就显得至关重要了。没有这些不连续代码，你所要创建的许多宏都将无法可靠地工作。

导入 IR 画面提供在 CP-700 中所有可用 IR 代码的滚动列表。通过滚动需要导入到可使用宏的遥控器的命令，按**发送 IR 代码**按钮，CP-700 将发出适当的命令代码到前面板，再由你的第三方遥控器进行导入。

关于此控制系统的详情，我们建议你向经授权的驾势经销商咨询。



此按钮用来导入**显示设置**菜单。用它可以设置 CP-700 的 LCD 屏幕亮度、显示**暂停**以及触摸屏和菜单系统所使用的**语言**。

亮度 CP-700 的**亮度**设置有三个选项值：**低**、**中**和**高**。使用系统时，通常根据听音室周围光线的情况，进行适当的设置。在明亮的房间内，通常是高亮度设置最合适。而在较柔和的照明条件下，选择低亮度设置更让人感到舒适。

暂停 如果你喜欢在光线朦胧或黑暗的房间内欣赏音乐，你会发现，即使对显示屏设置了低亮度，它仍然会分散你的注意力。在此情形下，你可以改变背光的**暂停**，以便在你选择的无操作时间结束后，将其完全熄灭。

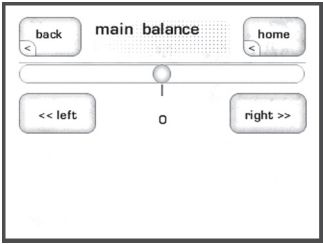
本文中的“无操作”是指任何用户界面的使用。它包括硬键、LCD 触摸屏和遥控器。

例如，如果你将暂停减少到最小设置，你与 CP-700 的控制系统发生互动操作，背光就会照亮显示屏，并仅保持三秒钟——仅足够你进行片刻的检查。如果你继续使用任何一种控制操作（至少每隔三秒钟操作一次），显示屏将持续保持被照亮的状态。在无操作状态三秒钟后，它将自行熄灭。

如果你想让 CP-700 的显示屏在任何时候都不处在待机状态，可将暂停设置为“不”。LCD 显示屏的灯可经受恶劣的工作环境，能为你提供多年的可靠操作。不过，如果你想让机器连续保持开启状态，我们建议你
将暂停延时设置为小于一分钟。（注意：低亮度设置并不增加灯泡的使用寿命。）

语言 语言菜单向你提供 CP-700 所支持的各种语言。驾势已经向我们的国际经销商提供了软件工具，使经销商按照当地的习惯和术语进行翻译成为可能，目的是要让 CP-700 在每个国家的操作如同在加拿大本土一样方便。

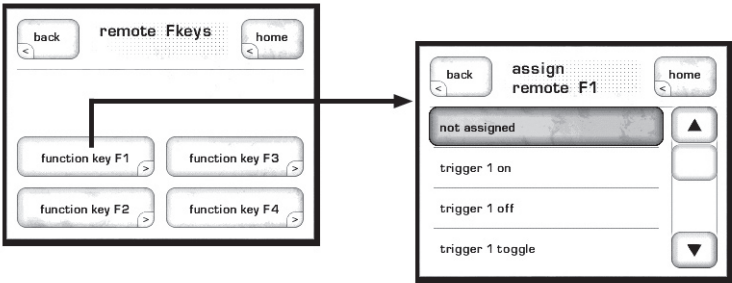
主平衡



主平衡控制向你提供 CP-700 当前平衡设置的数字和图形说明。

某些录音在左声道和右声道之间未能很好地平衡。如果某一特定录音所提供的图形，看起来左边显得很重（例如），你可以使用平衡控制恢复成更自然的图景。将图形移到右边，可根据需要，触摸**右键**一次或者多次，纠正已发现的不平衡。

遥控功能键



CP-700 的遥控器有四个**功能键（Fkeys）**，让你迅速方便地进入可在某个菜单中找到的系统功能。

例如，如果你经常使用平衡控制，你可能会想到对 **Fkeys** 进行编程，让你直接进入此画面。这样做可以让你免于进入空置菜单，以及接着按**平衡按钮**（该按钮可能在房间内很难发现）。

遥控功能键菜单有四个按钮，它们与遥控器上的四个功能键均一一对应。按 LCD 触摸屏上这些键按钮中的任何一个，可进入下一级菜单，弹出特定**功能键**的功能列表。

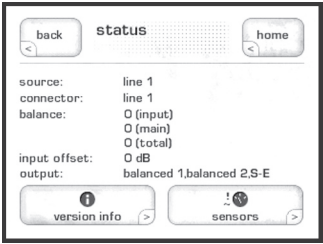
通过滚动列表，可容易选择你想要的某一项（仅需触摸右边的上或下箭头），然后触摸列表中你所需要并由**功能键**执行的某项特定功能。

使用功能键注意事项

请注意所有驾势的遥控器均提供这四个相同的**功能键**，所以你不必担心你偶尔拿起了某一个遥控器。前置放大器遥控器上的 **F1** 键所发出的红外线信号，与 CD 播放器遥控器上的 **F1** 键所发出的红外线信号相同。

虽然这样设计是为了最大限度地减少不同遥控器间操作上的混乱（因为这一点上，所执行的功能是一样的），但在将不同设备上的不同功能分配给同一个**功能键**时，你需要小心操作。这样做，将导致两个设备同时执行不相同的命令，以响应在遥控器上执行的某个单一按键操作。例如，F1键可以将前置放大器设置为 **CD** 输入，也可将 CD 播放器设置为“**播放**”，两者均通过按同一**功能键**。

状态



状态画面提供 CP-700 当前操作状态的数项信息，以及进入到 CP-700 及其内置传感器所使用软件的信息界面。

版本信息

状态画面上的**版本信息**按钮让你进入**版本信息**画面，该画面显示 CP-700 所使用的各种软件的信息内容。如果你有时向我们的技术支持人员所咨询的问题，并不被包含在本手册的内容之内，他们可能要知道你的机器所使用的软件的准确版本。保存这些信息，可有助于他们向你提供最好的服务。

传感器

状态画面上的**传感器**按钮让你进入**传感器**画面，该画面显示 CP-700 的几个内置传感器的信息。你不太可能会使用到这些信息，除非驾势的客服代表为了帮助解决一些意外的问题，要求你了解。

故障检修

通常情况下，你应该向驾势经销商咨询有关机器的维修问题。在你与经销商取得联系之前，检查一下所发生的问题，是否在下述清单中。如果在内，就使用推荐的解决方法出理。如果所有这些方法都没有解决问题，请与驾势经销商联系。

1. 设备全部开启，但无任何声音解决方法：

- 将音量控制调节到适当水平（声音可听见，但有不过高）。
- 确认对其选择输入的声源设备已被开启，并不在待机模式。
- 确认对使用的声源所作的输入选择是正确的。
- 检查前置放大器是否处在静音模式。此模式由扬声器加一杆的操作菜单图标显示。按**静音**键取消静音模式。
- 确认功率放大器已经通电，并不在待机模式。
- 检查磁带监控器是否被激活，如果它是使用状态，且录音机被关掉，你不会听见所选声源。按**磁带**键取消使用状态，但你想监控录音时除外。
- 如果此故障仅在某一特定的输入上发生，则检查声源和前置放大器之间的互连电缆。
- 如果此故障在所有输入上发生，则检查前置放大器和功率放大器之间的电缆。如果问题依然存在，则检查声源连接的扬声器线。



警告！

在检查前置放大器和功率放大器之间的任何连接，或功率放大器和扬声器之间的任何连接之前，先检查功率放大器是否被关闭。

2. 无声音，LED 待机状态未照亮解决方法：

- 确认前置放大器已经连接 AC 主电源且已开机，同时 AC 主电源工作正常。对于不正确的 AC 主电源，机器会通过不启动的方式来自动进行自我保护。在将前置放大器连接到 AC 主电源和开机之前，确认功率放大器已被关闭（假如该放大器已连接到前置放大器的话）。
- 如果你的前置放大器已正确地连接到电源，请尝试以下方法：将其设置为待机模式，关掉后面的主电源开关，并在再次开机之前，至少断电 30 秒钟。（有时候，短暂的电力不足可能要求重启机器）



警告！

在重启之前，一定先确认功率放大器已被降低了输出功率。

- 如果这些方法都没能解决问题，请向你的驾势经销商寻求帮助。不要替换内部保险丝。机器内并无用户可维修的部件。



警告!

3. 仅有一个扬声器操作

- 按**菜单**按钮，再按平衡按钮（或者直接按遥控器上的 **Bal** 键），检查 CP-700 的主**平衡**控制设置。
- 是不是所有的输入都发生此问题？如果是，检查前置放大器和功率放大器之间的互连电缆。如果在那未发现问题，检查扬声器线是否已经安全连接。

在检查前置放大器和功率放大器之间的任何连接，或扬声器和功率放大器之间的任何连接之前，先确认功率放大器已被关闭。

- 如果问题仅发生在某项特定输入上，检查此特定输入的输入平衡控制设置：

菜单 (Menu) → 系统设置 (system setup) → 输入 (input) → 输入名称 (input name) → 平衡 (balance)

其中的「输入名称」为所指的特定输入。

- 如果出现的输入平衡是正确的，检查对应的声源设备和 CP-700 之间的互连电缆。

4. 红外线 (IR) 遥控器不能操作

- 确认在 IR 遥控器和 IR 传感器（位于静音按钮的右边）之间无障碍物。
- 如果电池变量不足，则更换为新电池。

5. 扬声器发出嗡嗡声

- 如果你使用的是单端互连电缆，确认它们没有从 AC 电源线旁经过。
- 如果你使用的是单端互连电缆，确认它们未超过适当长度。过长的单端互连电缆，即使是屏蔽的，也会自然带来噪音。
- 如果连接到前置放大器的任何声源设备，被有线电视电缆钩住，请将有线电视电缆与声源设备断开。如果嗡嗡声消失了，你需要在电缆和该特定声源之间增加绝缘隔离装置。可向驾势经销商咨询此类价格不贵的装置。
- 如果你在前置放大器中安装了选择性的唱机模块，请确认唱臂上的接地线已经牢固地连接到前置放大器背面的地线接头上。
- 如果嗡嗡声仅在唱机输入上出现，请确认电场盘/唱臂组件与其它设备未离得太近。应与其它设备至少有 12 英寸（30 厘米）的距离。距离越大，效果越好（只要唱臂未被拉伸）。
- 确认唱臂电缆未接触到 AC 电源线或从其旁边经过。
- 确认唱机唱头的加载是正确的。如有疑问，请向经授权的驾势经销商咨询。

6. 从设备中传出机械嗡嗡声

- 这种现象说明在你的 AC 电源线上由许多电噪音。可试着连接到其它 AC 电路上（不只是调换插头，而是使用不同的电路）。
- 在前置放大器同一电路中，检查是否还有卤素灯或调光器，因为它们可以在电源变压器中产生嗡嗡声。

7. 即使没有调节音量，在两个输入之间也会有明显的音量变化

- 你可能需要调节输入补偿设置，补偿声源组件之间输出电平差异。相反地，也有可能输入补偿设置调节得不当。任何一种情形，你都可以进入菜单系统的下列位置，解决问题：

菜单 (Menu) → 系统设置 (system setup) → 输入 (input) → 输入名称 (input name) → 补偿 (offset)

其中「输入名称」是需要调节的输入。

- 如果看起来不正确的输入是唱机输入，请确认所使用的增益设置相对于你的唱头而言是正确的。如有疑问，则与经授权的驾势经销商联系。

维护和保养

清洁机壳

清除前置放大器上的灰尘，可使用羽毛掸子或无棉绒的布。清除玷污和指纹，我们建议使用异丙醇和软布。清洁时，用酒精将布沾湿，在轻轻用布将前置放大器的表面清扫干净。酒精不要用得太多，以免从布上掉落，进入前置放大器内。



警告!

任何时候，都不得直接使用液体清洁剂清洁前置放大器的表面，因为直接应用有可能导致损坏机器内的电子部件。

清洁 LCD 触摸屏

清洁 LCD 触摸屏，可使用超细纤维擦眼镜布或者柔软无棉绒的布，并与专为眼镜或计算机 LCD 屏幕显示器/电视机而设计的清洁溶剂一起使用。

警告!

需将溶剂喷洒在布或织物上，不得直接用到触摸屏上。

安装遥控器电池

电池仓在遥控器的背面。取下固定基板的两个螺丝，注意不要把它们弄丢。装入两节 AA 电池（随机附送），并确认电池的极性与遥控器内表面指示的一致。

技术规格

所有技术规格在本手册付印时都是准确无误的。驾势有权不经事先通知而改进技术规格。

■ 频率反应:	20 Hz – 200kHz $\pm$ 0.1dB
■ 失真: (<i>THD</i> + 噪音)	0.0012%
■ 最大输入电压 (单端):	5Vrms
■ 最大输入电压 (平衡):	10Vrms
■ 最大输出电压 (单端):	10Vrms
■ 最大输出电压 (平衡):	20Vrms
■ 增益范围:	-86dB 到 +14dB
■ 输入阻抗 (单端):	100k Ω
■ 输入阻抗 (平衡):	200k Ω
■ 输出阻抗:	100 Ω
■ 最大输入至噪音基层:	120dB
■ 通道隔离:	130dB at 1kHz
■ 串音 (任何输入到输出):	好于 -120dB @ 1kHz
■ 额定功率消耗:	42W
■ 空转功率消耗:	29W
■ 主电源电压:	根据机器使用国家的需要设计, 经销商或用户不得重设
■ 总尺寸 (前置放大器):	宽: 17.5" (445mm) 深: 16.5" (419mm) 高: 4.75" (121mm)
■ 总尺寸 (电源):	宽: 5" (127mm) 深: 12" (305mm) 高: 5.5" (140mm)
■ 净重 (前置放大器):	23lbs (10.5kg)
■ 净重 (电源):	10lbs (4.6kg)
■ 装运重量:	45lbs (20.5kg)

如需进一步资料, 请向你的驾势经销商咨询, 或通过下列联系地址了解:

Classé Audio
5070 François Cusson
Lachine, Quebec
Canada H8T 1B3
电话: +1 (514) 636-6384
传真: +1 (514) 636-1428

<http://www.classeaudio.com>
电邮: cservice@classeaudio.com

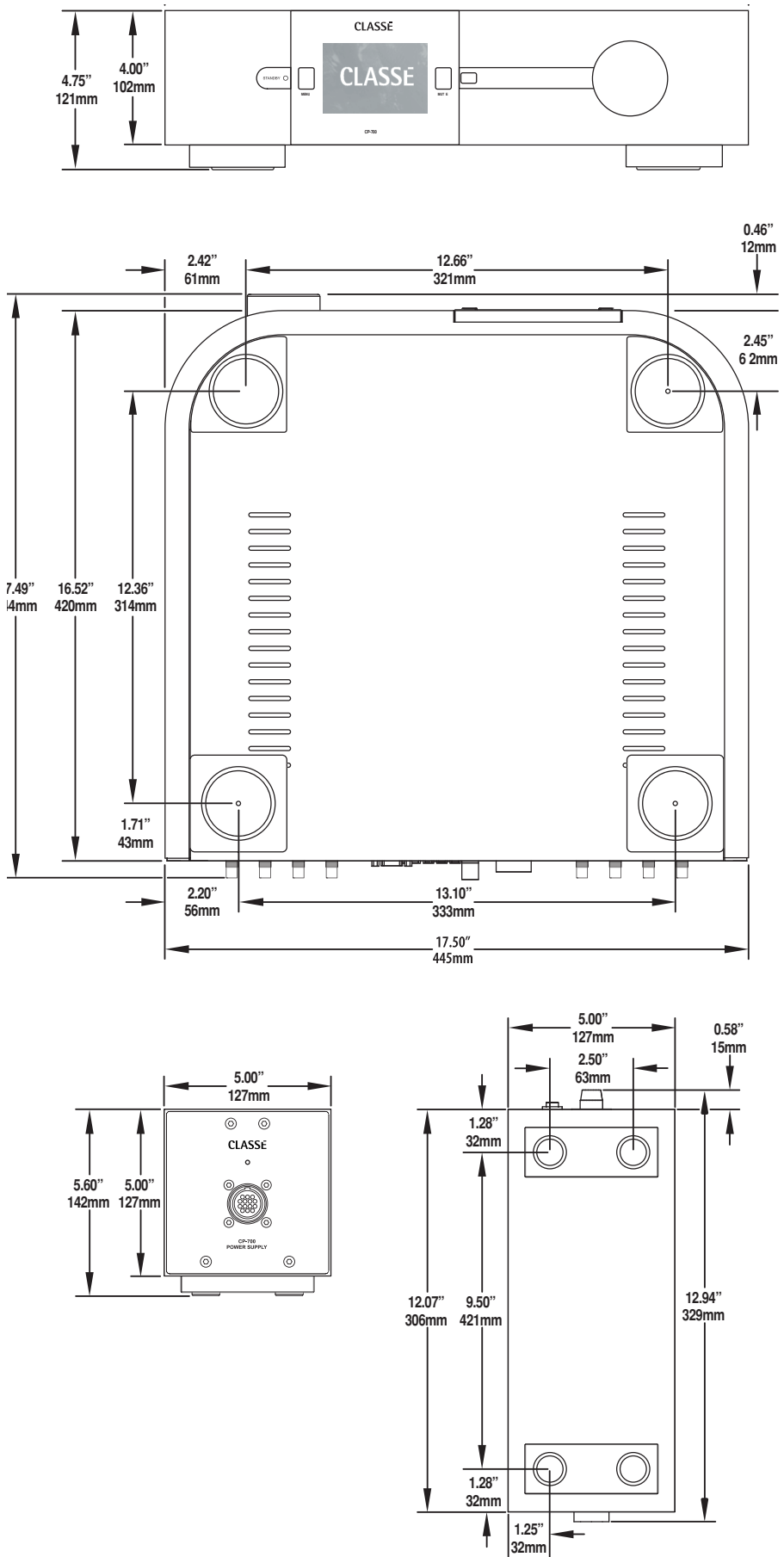
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尺寸图



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